

## SEQUENCE LISTING

&lt;110&gt; INCYTE PHARMACEUTICALS, INC.

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 LU, Dyung Aina M.  
 AZIMZAI, Yalda

&lt;120&gt; NEURON-ASSOCIATED PROTEINS

&lt;130&gt; PF-0637 PCT

&lt;140&gt; To Be Assigned

&lt;141&gt; Herewith

&lt;150&gt; 09/210,083; unassigned; 60/119,365; 60/124,687

&lt;151&gt; 1998-12-11; 1998-12-11; 1999-02-09; 1999-03-16

&lt;160&gt; 56

&lt;170&gt; PERL Program

&lt;210&gt; 1

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 2417014CD1

&lt;400&gt; 1

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Ser | Pro | Ser | Arg | Ala | Ala | Gly | Arg | Arg | Leu | Gln | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |
| Pro | Leu | Leu | Cys | Leu | Phe | Leu | Gln | Gly | Ala | Thr | Ala | Val | Leu | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |
| Ala | Val | Phe | Val | Arg | Tyr | Asn | His | Lys | Thr | Asp | Ala | Ala | Leu | Trp |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |
| His | Arg | Ser | Asn | His | Ser | Asn | Ala | Asp | Asn | Glu | Phe | Tyr | Phe | Arg |
|     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |
| Tyr | Pro | Lys | Glu | Ser | His | Ser | Val | Ala | Gln | Ala | Gly | Val | Gln | Arg |
|     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |
| Arg | Asn | Leu | Gly | Ser | Leu | Gln | Pro | Ser | Pro | Pro | Arg | Trp | Ser | Phe |
|     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |     |
| Ala | Leu | Val | Ala | Gln | Ala | Gly | Val | Gln | Trp | His | Asn | Leu | Gly | Ser |
|     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |     |
| Pro | Gln | Pro | Leu | Pro | Pro | Gly | Phe | Lys | Arg | Phe | Ser | Cys | Leu | Ser |
|     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |     |
| Leu | Leu | Ser | Ser | Trp | Asp | Tyr | Ser | Leu | Glu | Ser | Val | Phe | Pro | Leu |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 125 |  | 130 |  | 135 |
| Ile Ala Glu Gly Gln Arg Ser Ala Thr Ser Gln Ala Met His Gln |     |  |     |  |     |
|   | 140 |  | 145 |  | 150 |
| Leu Phe Gly Leu Phe Val Thr Leu Met Phe Ala Ser Val Gly Gly |     |  |     |  |     |
|   | 155 |  | 160 |  | 165 |
| Gly Leu Gly Gly Leu Leu Leu Lys Leu Pro Phe Leu Asp Ser Pro |     |  |     |  |     |
|   | 170 |  | 175 |  | 180 |
| Pro Arg Leu Pro Ala Leu Arg Gly Pro Ser Ser Leu Ala Gly Ala |     |  |     |  |     |
|   | 185 |  | 190 |  | 195 |
| Trp Arg Ala   |     |  |     |  |     |

&lt;210&gt; 2

&lt;211&gt; 463

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 2634931CD1

&lt;400&gt; 2

|   |     |     |
|---|-----|-----|
| Met His Gly Ser Cys Ser Phe Leu Met Leu Leu Leu Pro Leu Leu |     |     |
| 1   | 5   | 10  |
| Leu Leu Leu Val Ala Thr Thr Gly Pro Val Gly Ala Leu Thr Asp |     |     |
|   | 20  | 25  |
| Glu Glu Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala |     |     |
|   | 35  | 40  |
| Gln Val Ser Pro Thr Ala Ser Asp Met Leu His Met Arg Trp Asp |     |     |
|   | 50  | 55  |
| Glu Glu Leu Ala Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val |     |     |
|   | 65  | 70  |
| Trp Gly His Asn Lys Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe |     |     |
|   | 80  | 85  |
| Ala Ile Thr Asp Glu Gly Met Asp Val Pro Leu Ala Met Glu Glu |     |     |
|   | 95  | 100 |
| Trp His His Glu Arg Glu His Tyr Asn Leu Ser Ala Ala Thr Cys |     |     |
|   | 110 | 115 |
| Ser Pro Gly Gln Met Cys Gly His Tyr Thr Gln Val Val Trp Ala |     |     |
|   | 125 | 130 |
| Lys Thr Glu Arg Ile Gly Cys Gly Ser His Phe Cys Glu Lys Leu |     |     |
|   | 140 | 145 |
| Gln Gly Val Glu Glu Thr Asn Ile Glu Leu Leu Val Cys Asn Tyr |     |     |
|   | 155 | 160 |
| Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro Tyr Gln Glu Gly |     |     |
|   | 170 | 175 |
| Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys Lys Asn Ser |     |     |
|   | 185 | 190 |
| Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp Leu Pro |     |     |
|   | 200 | 205 |
| Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala Ser |     |     |
|   | 215 | 220 |
| Asp Ser Arg Lys Met Gly Thr Pro Ser Ser Leu Ala Thr Gly Ile |     |     |
|   | 230 | 235 |
| Pro Ala Phe Leu Val Thr Glu Val Ser Gly Ser Leu Ala Thr Lys |     |     |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 245 |  | 250 |  | 255 |
| Ala Leu Pro Ala Val Glu Thr Gln Ala Pro Thr Ser Leu Ala Thr |     |  |     |  |     |
|   | 260 |  | 265 |  | 270 |
| Lys Asp Pro Pro Ser Met Ala Thr Glu Ala Pro Pro Cys Val Thr |     |  |     |  |     |
|   | 275 |  | 280 |  | 285 |
| Thr Glu Val Pro Ser Ile Leu Ala Ala His Ser Leu Pro Ser Leu |     |  |     |  |     |
|   | 290 |  | 295 |  | 300 |
| Asp Glu Glu Pro Val Thr Phe Pro Lys Ser Thr His Val Pro Ile |     |  |     |  |     |
|   | 305 |  | 310 |  | 315 |
| Pro Lys Ser Ala Asp Lys Val Thr Asp Lys Thr Lys Val Pro Ser |     |  |     |  |     |
|   | 320 |  | 325 |  | 330 |
| Arg Ser Pro Glu Asn Ser Leu Asp Pro Lys Met Ser Leu Thr Gly |     |  |     |  |     |
|   | 335 |  | 340 |  | 345 |
| Ala Arg Glu Leu Leu Pro His Ala Gln Glu Glu Ala Glu Ala Glu |     |  |     |  |     |
|   | 350 |  | 355 |  | 360 |
| Ala Glu Leu Pro Pro Ser Ser Glu Val Leu Ala Ser Val Phe Pro |     |  |     |  |     |
|   | 365 |  | 370 |  | 375 |
| Ala Gln Asp Lys Pro Gly Glu Leu Gln Ala Thr Leu Asp His Thr |     |  |     |  |     |
|   | 380 |  | 385 |  | 390 |
| Gly His Thr Ser Ser Lys Ser Leu Pro Asn Phe Pro Asn Thr Ser |     |  |     |  |     |
|   | 395 |  | 400 |  | 405 |
| Ala Thr Ala Asn Ala Thr Gly Gly Arg Ala Leu Ala Leu Gln Ser |     |  |     |  |     |
|   | 410 |  | 415 |  | 420 |
| Ser Leu Pro Gly Ala Glu Gly Pro Asp Lys Pro Ser Val Val Ser |     |  |     |  |     |
|   | 425 |  | 430 |  | 435 |
| Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu Gly |     |  |     |  |     |
|   | 440 |  | 445 |  | 450 |
| Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe         |     |  |     |  |     |
|   | 455 |  | 460 |  |     |

&lt;210&gt; 3

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 110960CD1

&lt;400&gt; 3

|   |    |    |
|---|----|----|
| Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr |    |    |
| 1   | 5  | 10 |
| Glu Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala |    |    |
|   | 20 | 25 |
| Val Pro Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu |    |    |
|   | 35 | 40 |
| Gly Met Lys Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro |    |    |
|   | 50 | 55 |
| Leu His Pro Ser Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Ser |    |    |
|   | 65 | 70 |
| Tyr Asp Asn Gly Phe Pro Thr Gly Asp His Glu Leu Phe Thr Thr |    |    |
|   | 80 | 85 |
| Phe Ser Trp Asp Asp Gln Lys Val Arg Arg Val Phe Val Arg Lys |    |    |

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          95              100              105
Val Tyr Thr Ile Leu Leu Ile Gln Leu Leu Val Thr Leu Ala Val
          110              115              120
Val Ala Leu Phe Thr Phe Cys Asp Pro Val Lys Asp Tyr Val Gln
          125              130              135
Ala Asn Pro Gly Trp Tyr Trp Ala Ser Tyr Ala Val Phe Phe Ala
          140              145              150
Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly Pro Arg Arg His Phe
          155              160              165
Pro Trp Asn Leu Ile Leu Leu Thr Val Phe Thr Leu Ser Met Ala
          170              175              180
Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser Val
          185              190              195
Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
          200              205              210
Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly
          215              220              225
Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile
          230              235              240
Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala
          245              250              255
Val Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala
          260              265              270
Leu Asp Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser
          275              280              285
Pro Glu Glu Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile
          290              295              300
Ile Tyr Ile Phe Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg
          305              310              315
Glu

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<210> 4  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 380721CD1

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<400> 4
Met Ser Glu Gln Gly Asp Leu Asn Gln Ala Ile Ala Glu Glu Gly
  1              5              10              15
Gly Thr Glu Gln Glu Thr Ala Thr Pro Glu Asn Gly Ile Val Lys
          20              25              30
Ser Glu Ser Leu Asp Glu Glu Glu Lys Leu Glu Leu Gln Arg Arg
          35              40              45
Leu Glu Ala Gln Asn Gln Glu Arg Arg Lys Ser Lys Ser Gly Ala
          50              55              60
Gly Lys Gly Lys Leu Thr Arg Ser Leu Ala Val Cys Glu Glu Ser
          65              70              75
Ser Ala Arg Pro Gly Gly Glu Ser Leu Gln Gly Gln Thr Leu
          80              85

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<210> 5  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 829443CD1

<400> 5  
 Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu  
     1                    5                    10                    15  
 Ala Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val  
                     20                    25                    30  
 Cys Ala Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val  
                     35                    40                    45  
 Gln Arg Val Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg  
                     50                    55                    60  
 Ala Cys Ser Thr Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg  
                     65                    70                    75  
 Ser Pro Gly Leu Ala Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro  
                     80                    85                    90  
 Gly Trp Lys Arg Thr Ser Gly Leu Pro Gly Ala Cys Gly Ala Ala  
                     95                    100                    105  
 Ile Cys Gln Pro Pro Cys Arg Asn Gly Gly Ser Cys Val Gln Pro  
                     110                    115                    120  
 Gly Arg Cys Arg Cys Pro Ala Gly Trp Arg Gly Asp Thr Cys Gln  
                     125                    130                    135  
 Ser Asp Val Asp Glu Cys Ser Ala Arg Arg Gly Gly Cys Pro Gln  
                     140                    145                    150  
 Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp Cys Gln Cys Trp Glu  
                     155                    160                    165  
 Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys Val Pro Lys Gly  
                     170                    175                    180  
 Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val Asp Ser Ala  
                     185                    190                    195  
 Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp Leu Leu  
                     200                    205                    210  
 Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu Ala  
                     215                    220                    225  
 Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu  
                     230                    235                    240  
 Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu  
                     245                    250                    255  
 Gln Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys  
                     260                    265                    270  
 Lys Asp Ser

<210> 6  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 1470058CD1

<400> 6  
 Met Leu Lys Cys His Val Phe Arg Cys Asp Val Pro Ala Lys Ala  
 1 5 10 15  
 Ile Ala Ser Ala Leu His Gly Leu Cys Ala Gln Ile Leu Ser Glu  
 20 25 30  
 Arg Val Glu Val Ser Gly Asp Ala Ser Cys Cys Ser Pro Asp Pro  
 35 40 45  
 Ile Ser Pro Glu Asp Leu Pro Arg Gln Val Glu Leu Leu Asp Ala  
 50 55 60  
 Val Ser Gln Ala Ala Gln Lys Tyr Glu Ala Leu Tyr Met Gly Thr  
 65 70 75  
 Leu Pro Val Thr Lys Ala Met Gly Met Asp Val Leu Asn Glu Ala  
 80 85 90  
 Ile Gly Thr Leu Thr Ala Arg Gly Asp Arg Asn Ala Trp Val Pro  
 95 100 105  
 Thr Met Leu Ser Val Ser Asp Ser Leu Met Thr Ala His Pro Ile  
 110 115 120  
 Gln Ala Glu Ala Ser Thr Glu Glu Glu Pro Leu Trp Gln Cys Pro  
 125 130 135  
 Val Arg Leu Val Thr Phe Ile Gly Val Gly Arg Asp Pro His Thr  
 140 145 150  
 Phe Gly Leu Ile Ala Asp Leu Gly Arg Gln Ser Phe Gln Cys Ala  
 155 160 165  
 Ala Phe Trp Cys Gln Pro His Ala Gly Gly Leu Ser Glu Ala Val  
 170 175 180  
 Gln Ala Ala Cys Met Val Gln Tyr Gln Lys Cys Leu Val Ala Ser  
 185 190 195  
 Ala Ala Arg Gly Lys Ala Trp Gly Ala Gln Ala Arg Ala Arg Leu  
 200 205 210  
 Arg Leu Lys Arg Thr Ser Ser Met Asp Ser Pro Gly Gly Pro Leu  
 215 220 225  
 Pro Leu Pro Leu Leu Lys Gly Gly Val Gly Gly Ala Gly Ala Thr  
 230 235 240  
 Pro Arg Lys Arg Gly Val Phe Ser Phe Leu Asp Ala Phe Arg Leu  
 245 250 255  
 Lys Pro Ser Leu Leu His Met Pro  
 260

<210> 7  
 <211> 165  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 1554947CD1

<400> 7  
 Met Ala Asp Phe Asp Glu Ile Tyr Glu Glu Glu Glu Asp Glu Glu  
 1 5 10 15  
 Arg Ala Leu Glu Glu Gln Leu Leu Lys Tyr Ser Pro Asp Pro Val

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 20  |  | 25  |  | 30  |
| Val Val Arg Gly Ser Gly His Val Thr Val Phe Gly Leu Ser Asn |     |  |     |  |     |
|   | 35  |  | 40  |  | 45  |
| Lys Phe Glu Ser Glu Phe Pro Ser Ser Leu Thr Gly Lys Val Ala |     |  |     |  |     |
|   | 50  |  | 55  |  | 60  |
| Pro Glu Glu Phe Lys Ala Ser Ile Asn Arg Val Asn Ser Cys Leu |     |  |     |  |     |
|   | 65  |  | 70  |  | 75  |
| Lys Lys Asn Leu Pro Val Asn Val Arg Trp Leu Leu Cys Gly Cys |     |  |     |  |     |
|   | 80  |  | 85  |  | 90  |
| Leu Cys Cys Cys Cys Thr Leu Gly Cys Ser Met Trp Pro Val Ile |     |  |     |  |     |
|   | 95  |  | 100 |  | 105 |
| Cys Leu Ser Lys Arg Thr Arg Arg Ser Ile Glu Lys Leu Leu Glu |     |  |     |  |     |
|   | 110 |  | 115 |  | 120 |
| Trp Glu Asn Asn Arg Leu Tyr His Lys Leu Cys Leu His Trp Arg |     |  |     |  |     |
|   | 125 |  | 130 |  | 135 |
| Leu Ser Lys Arg Lys Cys Glu Thr Asn Asn Met Met Glu Tyr Val |     |  |     |  |     |
|   | 140 |  | 145 |  | 150 |
| Ile Leu Ile Glu Phe Leu Pro Lys Thr Pro Ile Phe Arg Pro Asp |     |  |     |  |     |
|   | 155 |  | 160 |  | 165 |

&lt;210&gt; 8

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 1690245CD1

&lt;400&gt; 8

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
| Met Gln Asn Leu Gly Met Thr Ser Pro Leu Pro Tyr Asp Ser Leu |     |  |     |  |     |
| 1   | 5   |  | 10  |  | 15  |
| Gly Tyr Asn Ala Pro His His Pro Phe Ala Gly Tyr Pro Pro Gly |     |  |     |  |     |
|   | 20  |  | 25  |  | 30  |
| Tyr Pro Met Gln Ala Tyr Val Asp Pro Ser Asn Pro Asn Ala Gly |     |  |     |  |     |
|   | 35  |  | 40  |  | 45  |
| Lys Val Leu Leu Pro Thr Pro Ser Met Asp Pro Val Cys Ser Pro |     |  |     |  |     |
|   | 50  |  | 55  |  | 60  |
| Ala Pro Tyr Asp His Ala Gln Pro Leu Val Gly His Ser Thr Glu |     |  |     |  |     |
|   | 65  |  | 70  |  | 75  |
| Pro Leu Ser Ala Pro Pro Pro Val Pro Val Val Pro His Val Ala |     |  |     |  |     |
|   | 80  |  | 85  |  | 90  |
| Ala Pro Val Glu Val Ser Ser Ser Gln Tyr Val Ala Gln Ser Asp |     |  |     |  |     |
|   | 95  |  | 100 |  | 105 |
| Gly Val Val His Gln Asp Ser Ser Val Ala Val Leu Pro Val Pro |     |  |     |  |     |
|   | 110 |  | 115 |  | 120 |
| Ala Pro Gly Pro Val Gln Gly Gln Asn Tyr Ser Val Trp Asp Ser |     |  |     |  |     |
|   | 125 |  | 130 |  | 135 |
| Asn Gln Gln Ser Val Ser Val Gln Gln Gln Tyr Ser Pro Ala Gln |     |  |     |  |     |
|   | 140 |  | 145 |  | 150 |
| Ser Gln Ala Thr Ile Tyr Tyr Gln Gly Gln Thr Cys Pro Thr Val |     |  |     |  |     |
|   | 155 |  | 160 |  | 165 |
| Tyr Gly Val Thr Ser Pro Tyr Ser Gln Thr Thr Pro Pro Ile Val |     |  |     |  |     |
|   | 170 |  | 175 |  | 180 |

|         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| <400> 9 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Met     | Arg | Cys | Cys | Arg | Arg | Arg | Cys | Cys | Cys | Arg | Gln | Pro | Pro | His |  |
| 1       |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Ala     | Leu | Arg | Pro | Leu | Leu | Leu | Leu | Pro | Leu | Val | Leu | Leu | Pro | Pro |  |
|         |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Leu     | Ala | Ala | Ala | Ala | Ala | Gly | Pro | Asn | Arg | Cys | Asp | Thr | Ile | Tyr |  |
|         |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| Gln     | Gly | Phe | Ala | Glu | Cys | Leu | Ile | Arg | Leu | Gly | Asp | Ser | Met | Gly |  |
|         |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Arg     | Gly | Gly | Glu | Leu | Glu | Thr | Ile | Cys | Arg | Ser | Trp | Asn | Asp | Phe |  |



|   |     |     |     |
|---|-----|-----|-----|
|   | 65  | 70  | 75  |
| His Ala Cys Ala Ser Gln Val Leu Ser Gly Cys Pro Glu Glu Ala |     |     |     |
|   | 80  | 85  | 90  |
| Ala Ala Val Trp Glu Ser Leu Gln Gln Glu Ala Arg Gln Ala Pro |     |     |     |
|   | 95  | 100 | 105 |
| Arg Pro Asn Asn Leu His Thr Leu Cys Gly Ala Pro Val His Val |     |     |     |
|   | 110 | 115 | 120 |
| Arg Glu Arg Gly Thr Gly Ser Lys Thr Asn Gln Glu Thr Leu Arg |     |     |     |
|   | 125 | 130 | 135 |
| Ala Thr Ala Pro Ala Leu Pro Met Ala Pro Ala Pro Pro Leu Leu |     |     |     |
|   | 140 | 145 | 150 |
| Ala Ala Ala Leu Ala Leu Ala Tyr Leu Leu Arg Pro Leu Ala     |     |     |     |
|   | 155 | 160 |     |

&lt;210&gt; 10

&lt;211&gt; 796

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 2253519CD1

&lt;400&gt; 10

|   |     |     |
|---|-----|-----|
| Met Thr Val Ala Gly Leu Lys Leu Leu Arg Ser Ala Phe Cys Cys |     |     |
| 1   | 5   | 10  |
| Pro Pro Gln Gln Tyr Leu Thr Leu Ala Phe Thr Val Leu Leu Phe |     |     |
|   | 20  | 25  |
| His Phe Asp Tyr Pro Arg Leu Ser Gln Gly Phe Leu Leu Asp Tyr |     |     |
|   | 35  | 40  |
| Phe Leu Met Ser Leu Leu Cys Ser Lys Leu Trp Asp Leu Leu Tyr |     |     |
|   | 50  | 55  |
| Lys Leu Arg Phe Val Leu Thr Tyr Ile Ala Pro Trp Gln Ile Thr |     |     |
|   | 65  | 70  |
| Trp Gly Ser Ala Phe His Ala Phe Ala Gln Pro Phe Ala Val Pro |     |     |
|   | 80  | 85  |
| His Ser Ala Met Leu Phe Val Gln Ala Leu Leu Ser Gly Leu Phe |     |     |
|   | 95  | 100 |
| Ser Thr Pro Leu Asn Pro Leu Leu Gly Ser Ala Val Phe Ile Met |     |     |
|   | 110 | 115 |
| Ser Tyr Ala Arg Pro Leu Lys Phe Trp Glu Arg Asp Tyr Asn Thr |     |     |
|   | 125 | 130 |
| Lys Arg Val Asp His Ser Asn Thr Arg Leu Val Thr Gln Leu Asp |     |     |
|   | 140 | 145 |
| Arg Asn Pro Gly Ala Asp Asp Asn Asn Leu Asn Ser Ile Phe Tyr |     |     |
|   | 155 | 160 |
| Glu His Leu Thr Arg Ser Leu Gln His Thr Leu Cys Gly Asp Leu |     |     |
|   | 170 | 175 |
| Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val |     |     |
|   | 185 | 190 |
| Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val |     |     |
|   | 200 | 205 |
| Gly Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg |     |     |
|   | 215 | 220 |
|   |     | 225 |

|                 |                     |                         |     |     |     |
|-----------------|---------------------|-------------------------|-----|-----|-----|
| Gly Thr Tyr Cys | Gln Gln Arg Glu Val | Glu Ala Ile Thr Glu Gly | 230 | 235 | 240 |
| Val Glu Glu Asp | Glu Gly Cys Cys Cys | Cys Glu Pro Gly His Leu | 245 | 250 | 255 |
| Pro Arg Val Leu | Ser Phe Asn Ala Ala | Phe Gly Gln Arg Trp Leu | 260 | 265 | 270 |
| Ala Trp Glu Val | Thr Ala Ser Lys Tyr | Val Leu Glu Gly Tyr Ser | 275 | 280 | 285 |
| Ile Ser Asp Asn | Asn Ala Ala Ser Met | Leu Gln Val Phe Asp Leu | 290 | 295 | 300 |
| Arg Lys Ile Leu | Ile Thr Tyr Tyr Val | Lys Ser Ile Ile Tyr Tyr | 305 | 310 | 315 |
| Val Ser Arg Ser | Pro Lys Leu Glu Val | Trp Leu Ser His Glu Gly | 320 | 325 | 330 |
| Ile Thr Ala Ala | Leu Arg Pro Val Arg | Val Pro Gly Tyr Ala Asp | 335 | 340 | 345 |
| Ser Asp Pro Thr | Phe Ser Leu Ser Val | Asp Glu Asp Tyr Asp Leu | 350 | 355 | 360 |
| Arg Leu Ser Gly | Leu Ser Leu Pro Ser | Phe Cys Ala Val His Leu | 365 | 370 | 375 |
| Glu Trp Ile Gln | Tyr Cys Ala Ser Arg | Arg Thr Arg Pro Val Asp | 380 | 385 | 390 |
| Gln Asp Trp Asn | Ser Pro Leu Val Thr | Leu Cys Phe Gly Leu Cys | 395 | 400 | 405 |
| Val Leu Gly Arg | Arg Ala Leu Gly Thr | Ala Ser His Ser Met Ser | 410 | 415 | 420 |
| Ala Ser Leu Glu | Pro Phe Leu Tyr Gly | Leu His Ala Leu Phe Lys | 425 | 430 | 435 |
| Gly Asp Phe Arg | Ile Thr Ser Pro Arg | Asp Glu Trp Val Phe Ala | 440 | 445 | 450 |
| Asp Met Asp Leu | Leu His Arg Val Val | Ala Pro Gly Val Arg Met | 455 | 460 | 465 |
| Ala Leu Lys Leu | His Gln Asp His Phe | Thr Ser Pro Asp Glu Tyr | 470 | 475 | 480 |
| Glu Glu Pro Ala | Ala Leu Tyr Asp Ala | Ile Ala Ala Asn Glu Glu | 485 | 490 | 495 |
| Arg Leu Val Ile | Ser His Glu Gly Asp | Pro Ala Trp Arg Ser Ala | 500 | 505 | 510 |
| Ile Leu Ser Asn | Thr Pro Ser Leu Leu | Ala Leu Arg His Val Leu | 515 | 520 | 525 |
| Asp Asp Ala Ser | Asp Glu Tyr Lys Ile | Ile Met Leu Asn Arg Arg | 530 | 535 | 540 |
| His Leu Ser Phe | Arg Val Ile Lys Val | Asn Arg Glu Cys Val Arg | 545 | 550 | 555 |
| Gly Leu Trp Ala | Gly Gln Gln Gln Glu | Leu Val Phe Leu Arg Asn | 560 | 565 | 570 |
| Arg Asn Pro Glu | Arg Gly Ser Ile Gln | Asn Ala Lys Gln Ala Leu | 575 | 580 | 585 |
| Arg Asn Met Ile | Asn Ser Ser Cys Asp | Gln Pro Leu Gly Tyr Pro | 590 | 595 | 600 |
| Ile Tyr Val Ser | Pro Leu Thr Thr Ser | Leu Ala Gly Ser His Pro | 605 | 610 | 615 |
| Gln Leu Arg Ala | Leu Trp Gly Gly Pro | Ile Ser Leu Gly Ala Ile | 620 | 625 | 630 |
| Ala His Trp Leu | Leu Arg Thr Trp Glu | Arg Leu His Lys Gly Cys |     |     |     |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 635 |  | 640 |  | 645 |
| Gly Ala Gly Cys Asn Ser Gly Gly Asn Val Asp Asp Ser Asp Cys |     |  |     |  |     |
|   | 650 |  | 655 |  | 660 |
| Ser Gly Gly Gly Gly Leu Thr Ser Leu Ser Asn Asn Pro Pro Val |     |  |     |  |     |
|   | 665 |  | 670 |  | 675 |
| Ala His Pro Thr Pro Glu Asn Thr Ala Gly Asn Gly Asp Gln Pro |     |  |     |  |     |
|   | 680 |  | 685 |  | 690 |
| Leu Pro Pro Gly Pro Gly Trp Gly Pro Arg Ser Ser Leu Ser Gly |     |  |     |  |     |
|   | 695 |  | 700 |  | 705 |
| Ser Gly Asp Gly Arg Pro Pro Pro Leu Leu Gln Trp Pro Pro Pro |     |  |     |  |     |
|   | 710 |  | 715 |  | 720 |
| Arg Leu Pro Gly Pro Pro Pro Ala Ser Pro Ile Pro Thr Glu Gly |     |  |     |  |     |
|   | 725 |  | 730 |  | 735 |
| Pro Arg Thr Ser Arg Pro Pro Gly Pro Gly Leu Leu Ser Ser Glu |     |  |     |  |     |
|   | 740 |  | 745 |  | 750 |
| Gly Pro Ser Gly Lys Trp Ser Leu Gly Gly Arg Lys Gly Leu Gly |     |  |     |  |     |
|   | 755 |  | 760 |  | 765 |
| Gly Ser Asp Gly Glu Pro Ala Ser Gly Ser Pro Lys Gly Gly Thr |     |  |     |  |     |
|   | 770 |  | 775 |  | 780 |
| Pro Lys Ser Gln Val Arg His Leu Trp Glu Gly Trp Val Pro Glu |     |  |     |  |     |
|   | 785 |  | 790 |  | 795 |
| Gly   |     |  |     |  |     |

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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 2888437CD1

<400> 11

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|---|-----|-----|
| Met Lys Cys Leu Tyr Tyr Leu Tyr Ala Ser Leu Asp Pro Asn Ala |     |     |
| 1   | 5   | 10  |
| Val Lys Ala Leu Asn Glu Met Trp Lys Cys Gln Asn Met Leu Arg |     |     |
|   | 20  | 25  |
| Ile His Val Arg Glu Leu Leu Asp Leu His Lys Gln Pro Thr Ser |     |     |
|   | 35  | 40  |
| Glu Ala Asn Cys Ser Ala Met Phe Gly Lys Leu Met Thr Ile Ala |     |     |
|   | 50  | 55  |
| Lys Asn Leu Pro Asp Pro Gly Lys Ala Gln Asp Phe Val Lys Lys |     |     |
|   | 65  | 70  |
| Phe Asn Gln Val Leu Gly Asp Asp Glu Lys Leu Arg Ser Gln Leu |     |     |
|   | 80  | 85  |
| Glu Leu Leu Ile Ser Pro Thr Cys Ser Cys Lys Gln Ala Asp Ile |     |     |
|   | 95  | 100 |
| Cys Val Arg Glu Ile Ala Arg Lys Leu Ala Asn Pro Lys Gln Pro |     |     |
|   | 110 | 115 |
| Thr Asn Pro Phe Leu Glu Met Val Lys Phe Leu Leu Glu Arg Ile |     |     |
|   | 125 | 130 |
| Ala Pro Val His Ile Asp Ser Glu Ala Ile Ser Ala Leu Val Lys |     |     |
|   | 140 | 145 |
|   |     | 150 |

|   |     |     |     |
|---|-----|-----|-----|
| Leu Met Asn Lys Ser Ile Glu Gly Thr Ala Asp Asp Glu Glu Glu | 155 | 160 | 165 |
| Gly Val Ser Pro Asp Thr Ala Ile Arg Ser Gly Leu Glu Leu Leu | 170 | 175 | 180 |
| Lys Val Leu Ser Phe Thr His Pro Thr Ser Phe His Ser Ala Glu | 185 | 190 | 195 |
| Thr Tyr Glu Ser Leu Leu Gln Cys Leu Arg Met Glu Asp Asp Lys | 200 | 205 | 210 |
| Val Ala Glu Ala Ala Ile Gln Ile Phe Arg Asn Thr Gly His Lys | 215 | 220 | 225 |
| Ile Glu Thr Asp Leu Pro Gln Ile Arg Ser Thr Leu Ile Pro Ile | 230 | 235 | 240 |
| Leu His Gln Lys Ala Lys Arg Gly Thr Pro His Gln Ala Lys Gln | 245 | 250 | 255 |
| Ala Val His Cys Ile His Ala Ile Phe Thr Asn Lys Glu Val Gln | 260 | 265 | 270 |
| Leu Ala Gln Ile Phe Glu Pro Leu Ser Arg Ser Leu Asn Ala Asp | 275 | 280 | 285 |
| Val Pro Glu Gln Leu Ile Thr Pro Leu Val Ser Leu Gly His Ile | 290 | 295 | 300 |
| Ser Met Leu Ala Pro Asp Gln Phe Ala Ser Pro Met Lys Ser Val | 305 | 310 | 315 |
| Val Ala Asn Phe Ile Val Lys Asp Leu Leu Met Asn Asp Arg Ser | 320 | 325 | 330 |
| Thr Gly Glu Lys Asn Gly Lys Leu Trp Ser Pro Asp Glu Glu Val | 335 | 340 | 345 |
| Ser Pro Glu Val Leu Ala Lys Val Gln Ala Ile Lys Leu Leu Val | 350 | 355 | 360 |
| Arg Trp Leu Leu Gly Met Lys Asn Asn Gln Ser Lys Ser Ala Asn | 365 | 370 | 375 |
| Ser Thr Leu Arg Leu Leu Ser Ala Met Leu Val Ser Glu Gly Asp | 380 | 385 | 390 |
| Leu Thr Glu Gln Lys Arg Ile Ser Lys Ser Asp Met Ser Arg Leu | 395 | 400 | 405 |
| Arg Leu Ala Ala Gly Ser Ala Ile Met Lys Leu Ala Gln Glu Pro | 410 | 415 | 420 |
| Cys Tyr His Glu Ile Ile Thr Pro Glu Gln Phe Gln Leu Cys Ala | 425 | 430 | 435 |
| Leu Val Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln Ile Phe Ala | 440 | 445 | 450 |
| Gln Lys Leu His Lys Ala Leu Val Lys Leu Leu Leu Pro Leu Glu | 455 | 460 | 465 |
| Tyr Met Ala Ile Phe Ala Leu Cys Ala Lys Asp Pro Val Lys Glu | 470 | 475 | 480 |
| Arg Arg Ala His Ala Arg Gln Cys Leu Leu Lys Asn Ile Ser Ile | 485 | 490 | 495 |
| Arg Arg Glu Tyr Ile Lys Gln Asn Pro Met Ala Thr Glu Lys Leu | 500 | 505 | 510 |
| Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Met Ile His Leu | 515 | 520 | 525 |
| Leu Ala His Asp Pro Asp Phe Thr Arg Ser Gln Asp Val Asp Gln | 530 | 535 | 540 |
| Leu Arg Asp Ile Lys Glu Cys Leu Trp Phe Met Leu Glu Val Leu | 545 | 550 | 555 |
| Met Thr Lys Asn Glu Asn Asn Ser His Ala Phe Met Lys Lys Met |     |     |     |

|                                     |                         |     |
|-------------------------------------|-------------------------|-----|
| 560                                 | 565                     | 570 |
| Ala Glu Asn Ile Lys Leu Thr Arg Asp | Ala Gln Ser Pro Asp Glu |     |
| 575                                 | 580                     | 585 |
| Ser Lys Thr Asn Glu Lys Leu Tyr Thr | Val Cys Asp Val Ala Leu |     |
| 590                                 | 595                     | 600 |
| Cys Val Ile Asn Ser Lys Ser Ala Leu | Cys Asn Ala Asp Ser Pro |     |
| 605                                 | 610                     | 615 |
| Lys Asp Pro Val Leu Pro Met Lys Phe | Phe Thr Gln Pro Glu Lys |     |
| 620                                 | 625                     | 630 |
| Asp Phe Cys Asn Asp Lys Ser Tyr Ile | Ser Glu Glu Thr Arg Val |     |
| 635                                 | 640                     | 645 |
| Leu Leu Leu Thr Gly Lys Pro Lys Pro | Ala Gly Val Leu Gly Ala |     |
| 650                                 | 655                     | 660 |
| Val Asn Lys Pro Leu Ser Ala Thr Gly | Arg Lys Pro Tyr Val Arg |     |
| 665                                 | 670                     | 675 |
| Ser Thr Gly Thr Glu Thr Gly Ser Asn | Ile Asn Val Asn Ser Glu |     |
| 680                                 | 685                     | 690 |
| Leu Asn Pro Ser Thr Gly Asn Arg Ser | Arg Glu Gln Ser Ser Glu |     |
| 695                                 | 700                     | 705 |
| Ala Ala Glu Thr Gly Val Ser Glu Asn | Glu Glu Asn Pro Val Arg |     |
| 710                                 | 715                     | 720 |
| Ile Ile Ser Val Thr Pro Val Lys Asn | Ile Asp Pro Val Lys Asn |     |
| 725                                 | 730                     | 735 |
| Lys Glu Ile Asn Ser Asp Gln Ala Thr | Gln Gly Asn Ile Ser Ser |     |
| 740                                 | 745                     | 750 |
| Asp Arg Gly Lys Lys Arg Thr Val Thr | Ala Ala Gly Ala Glu Asn |     |
| 755                                 | 760                     | 765 |
| Ile Gln Gln Lys Thr Asp Glu Lys Val | Asp Glu Ser Gly Pro Pro |     |
| 770                                 | 775                     | 780 |
| Ala Pro Ser Lys Pro Arg Arg Gly Arg | Arg Pro Lys Ser Glu Ser |     |
| 785                                 | 790                     | 795 |
| Gln Gly Asn Ala Thr Lys Asn Asp Asp | Leu Asn Lys Pro Ile Asn |     |
| 800                                 | 805                     | 810 |
| Lys Gly Arg Lys Arg Ala Ala Val Gly | Gln Glu Ser Pro Gly Gly |     |
| 815                                 | 820                     | 825 |
| Leu Glu Ala Gly Asn Ala Lys Ala Pro | Lys Leu Gln Asp Leu Ala |     |
| 830                                 | 835                     | 840 |
| Lys Lys Ala Ala Pro Ala Glu Arg Gln | Ile Asp Leu Gln Arg     |     |
| 845                                 | 850                     |     |

&lt;210&gt; 12

&lt;211&gt; 856

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 3201753CD1

&lt;400&gt; 12

Met Arg Gly Ile Phe Ile Lys His Val Leu Glu Asp Ser Pro Ala

1

5

10

15

Gly Lys Asn Gly Thr Leu Lys Pro Gly Asp Arg Ile Val Glu Val

20

25

30



|   |     |     |
|---|-----|-----|
| 440   | 445 | 450 |
| Ala Cys Lys Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu |     |     |
| 455   | 460 | 465 |
| Val Asn Gly Ile Asp Leu Arg Lys Ala Thr His Asp Glu Ala Ile |     |     |
| 470   | 475 | 480 |
| Asn Val Leu Arg Gln Thr Pro Gln Arg Val Arg Leu Thr Leu Tyr |     |     |
| 485   | 490 | 495 |
| Arg Asp Glu Ala Pro Tyr Lys Glu Glu Glu Val Cys Asp Thr Leu |     |     |
| 500   | 505 | 510 |
| Thr Ile Glu Leu Gln Lys Lys Pro Gly Lys Gly Leu Gly Leu Ser |     |     |
| 515   | 520 | 525 |
| Ile Val Gly Lys Arg Asn Asp Thr Gly Val Phe Val Ser Asp Ile |     |     |
| 530   | 535 | 540 |
| Val Lys Gly Gly Ile Ala Asp Ala Asp Gly Arg Leu Met Gln Gly |     |     |
| 545   | 550 | 555 |
| Asp Gln Ile Leu Met Val Asn Gly Glu Asp Val Arg Asn Ala Thr |     |     |
| 560   | 565 | 570 |
| Gln Glu Ala Val Ala Ala Leu Leu Lys Cys Ser Leu Gly Thr Val |     |     |
| 575   | 580 | 585 |
| Thr Leu Glu Val Gly Arg Ile Lys Ala Gly Pro Phe His Ser Glu |     |     |
| 590   | 595 | 600 |
| Arg Arg Pro Ser Gln Ser Ser Gln Val Ser Glu Gly Ser Leu Ser |     |     |
| 605   | 610 | 615 |
| Ser Phe Thr Phe Pro Leu Ser Gly Ser Ser Thr Ser Glu Ser Leu |     |     |
| 620   | 625 | 630 |
| Glu Ser Ser Ser Lys Lys Asn Ala Leu Ala Ser Glu Ile Gln Gly |     |     |
| 635   | 640 | 645 |
| Leu Arg Thr Val Glu Met Lys Lys Gly Pro Thr Asp Ser Leu Gly |     |     |
| 650   | 655 | 660 |
| Ile Ser Ile Ala Gly Gly Val Gly Ser Pro Leu Gly Asp Val Pro |     |     |
| 665   | 670 | 675 |
| Ile Phe Ile Ala Met Met His Pro Thr Gly Val Ala Ala Gln Thr |     |     |
| 680   | 685 | 690 |
| Gln Lys Leu Arg Val Gly Asp Arg Ile Val Thr Ile Cys Gly Thr |     |     |
| 695   | 700 | 705 |
| Ser Thr Glu Gly Met Thr His Thr Gln Ala Val Asn Leu Leu Lys |     |     |
| 710   | 715 | 720 |
| Asn Ala Ser Gly Ser Ile Glu Met Gln Val Val Ala Gly Gly Asp |     |     |
| 725   | 730 | 735 |
| Val Ser Val Val Thr Gly His Gln Gln Glu Pro Ala Ser Ser Ser |     |     |
| 740   | 745 | 750 |
| Leu Ser Phe Thr Gly Leu Thr Ser Ser Ser Ile Phe Gln Asp Asp |     |     |
| 755   | 760 | 765 |
| Leu Gly Pro Pro Gln Cys Lys Ser Ile Thr Leu Glu Arg Gly Pro |     |     |
| 770   | 775 | 780 |
| Asp Gly Leu Gly Phe Ser Ile Val Gly Gly Tyr Gly Ser Pro His |     |     |
| 785   | 790 | 795 |
| Gly Asp Leu Pro Ile Tyr Val Lys Thr Val Phe Ala Lys Gly Ala |     |     |
| 800   | 805 | 810 |
| Ala Ser Glu Asp Gly Arg Leu Lys Arg Gly Asp Gln Ile Ile Ala |     |     |
| 815   | 820 | 825 |
| Val Asn Gly Gln Ser Leu Glu Gly Val Thr His Glu Glu Ala Val |     |     |
| 830   | 835 | 840 |

Ala Ile Leu Lys Arg Thr Lys Gly Thr Val Thr Leu Met Val Leu  
845 850 855

Ser

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<211> 361
<212> PRT
<213> Homo sapiens
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| <400> | 13  |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Met   | Glu | Thr | Gly | Ala | Ala | Glu | Leu | Tyr | Asp | Gln | Ala | Leu | Leu | Gly |  |
| 1     |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |  |
| Ile   | Leu | Gln | His | Val | Gly | Asn | Val | Gln | Asp | Phe | Leu | Arg | Val | Leu |  |
|       |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |  |
| Phe   | Gly | Phe | Leu | Tyr | Arg | Lys | Thr | Asp | Phe | Tyr | Arg | Leu | Leu | Arg |  |
|       |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |  |
| His   | Pro | Ser | Asp | Arg | Met | Gly | Phe | Pro | Pro | Gly | Ala | Ala | Gln | Ala |  |
|       |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |  |
| Leu   | Val | Leu | Gln | Val | Phe | Lys | Thr | Phe | Asp | His | Met | Ala | Arg | Gln |  |
|       |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |  |
| Asp   | Asp | Glu | Lys | Arg | Arg | Gln | Glu | Leu | Glu | Glu | Lys | Ile | Arg | Arg |  |
|       |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |  |
| Lys   | Glu | Glu | Glu | Glu | Ala | Lys | Thr | Val | Ser | Ala | Ala | Ala | Ala | Glu |  |
|       |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |  |
| Lys   | Glu | Pro | Val | Pro | Val | Pro | Val | Gln | Glu | Ile | Glu | Ile | Asp | Ser |  |
|       |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |  |
| Thr   | Thr | Glu | Leu | Asp | Gly | His | Gln | Glu | Val | Glu | Lys | Val | Gln | Pro |  |
|       |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |  |
| Pro   | Gly | Pro | Val | Lys | Glu | Met | Ala | His | Gly | Ser | Gln | Glu | Ala | Glu |  |
|       |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |  |
| Ala   | Pro | Gly | Ala | Val | Ala | Gly | Ala | Ala | Glu | Val | Pro | Arg | Glu | Pro |  |
|       |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |  |
| Pro   | Ile | Leu | Pro | Arg | Ile | Gln | Glu | Gln | Phe | Gln | Lys | Asn | Pro | Asp |  |
|       |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |  |
| Ser   | Tyr | Asn | Gly | Ala | Val | Arg | Glu | Asn | Tyr | Thr | Trp | Ser | Gln | Asp |  |
|       |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |  |
| Tyr   | Thr | Asp | Leu | Glu | Val | Arg | Val | Pro | Val | Pro | Lys | His | Val | Val |  |
|       |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |  |
| Lys   | Gly | Lys | Gln | Val | Ser | Val | Ala | Leu | Ser | Ser | Ser | Ser | Ile | Arg |  |
|       |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |  |
| Val   | Ala | Met | Leu | Glu | Glu | Asn | Gly | Glu | Arg | Val | Leu | Met | Glu | Gly |  |
|       |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Lys   | Leu | Thr | His | Lys | Ile | Asn | Thr | Glu | Ser | Ser | Leu | Trp | Ser | Leu |  |
|       |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |  |
| Glu   | Pro | Gly | Lys | Cys | Val | Leu | Val | Asn | Leu | Ser | Lys | Val | Gly | Glu |  |
|       |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |  |
| Tyr   | Trp | Trp | Asn | Ala | Ile | Leu | Glu | Gly | Glu | Glu | Pro | Ile | Asp | Ile |  |
|       |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |  |
| Asp   | Lys | Ile | Asn | Lys | Glu | Arg | Ser | Met | Ala | Thr | Val | Asp | Glu | Glu |  |
|       |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |  |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gln | Ala | Val | Leu | Asp | Arg | Leu | Thr | Phe | Asp | Tyr | His | Gln | Lys |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Leu | Gln | Gly | Lys | Pro | Gln | Ser | His | Glu | Leu | Lys | Val | His | Glu | Met |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Lys | Lys | Gly | Trp | Asp | Ala | Glu | Gly | Ser | Pro | Phe | Arg | Gly | Gln |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Arg | Phe | Asp | Pro | Ala | Met | Phe | Asn | Ile | Ser | Pro | Gly | Ala | Val | Gln |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Phe |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

&lt;210&gt; 14

&lt;211&gt; 632

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 533825CD1

&lt;400&gt; 14

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Ala | Leu | Leu | Leu | Leu | Val | Leu | Pro | Trp | Leu | Ser | Pro | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Asn | Tyr | Ile | Asp | Asn | Val | Gly | Asn | Leu | His | Phe | Leu | Tyr | Ser | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Leu | Cys | Lys | Gly | Ala | Ser | His | Tyr | Gly | Leu | Thr | Lys | Asp | Arg | Lys |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Arg | Arg | Ser | Gln | Asp | Gly | Cys | Pro | Asp | Gly | Cys | Ala | Ser | Leu | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Ala | Thr | Ala | Pro | Ser | Pro | Glu | Val | Ser | Ala | Ala | Ala | Thr | Ile | Ser |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Met | Thr | Asp | Glu | Pro | Gly | Leu | Asp | Asn | Pro | Ala | Tyr | Val | Ser |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Ser | Ala | Glu | Asp | Gly | Gln | Pro | Ala | Ile | Ser | Pro | Val | Asp | Ser | Gly |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Arg | Ser | Asn | Arg | Thr | Arg | Ala | Arg | Pro | Phe | Glu | Arg | Ser | Thr | Ile |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Ser | Arg | Ser | Phe | Lys | Lys | Ile | Asn | Arg | Ala | Leu | Ser | Val | Leu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Arg | Arg | Thr | Lys | Ser | Gly | Ser | Ala | Val | Ala | Asn | His | Ala | Asp | Gln |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gly | Arg | Glu | Asn | Ser | Glu | Asn | Ile | Thr | Ala | Pro | Glu | Val | Phe | Pro |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Arg | Leu | Tyr | His | Leu | Ile | Pro | Asp | Gly | Glu | Ile | Thr | Ser | Ile | Lys |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ile | Asn | Arg | Val | Asp | Pro | Ser | Glu | Ser | Leu | Ser | Ile | Arg | Leu | Val |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Gly | Gly | Ser | Glu | Thr | Pro | Leu | Val | His | Ile | Ile | Ile | Gln | His | Ile |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Tyr | Arg | Asp | Gly | Val | Ile | Ala | Arg | Asp | Gly | Arg | Leu | Leu | Pro | Gly |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Asp | Ile | Ile | Leu | Lys | Val | Asn | Gly | Met | Asp | Ile | Ser | Asn | Val | Pro |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Asn | Tyr | Ala | Val | Arg | Leu | Leu | Arg | Gln | Pro | Cys | Gln | Val | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| Trp | Leu | Thr | Val | Met | Arg | Glu | Gln | Lys | Phe | Arg | Ser | Arg | Asn | Asn |  |  |  |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |  |  |  |
| Gly | Gln | Ala | Pro | Asp | Ala | Tyr | Arg | Pro | Arg | Asp | Asp | Ser | Phe | His |  |  |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |  |  |  |
| Val | Ile | Leu | Asn | Lys | Ser | Ser | Pro | Glu | Glu | Gln | Leu | Gly | Ile | Lys |  |  |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |  |  |  |
| Leu | Val | Arg | Lys | Val | Asp | Glu | Pro | Gly | Val | Phe | Ile | Phe | Asn | Val |  |  |  |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |  |  |  |
| Leu | Asp | Gly | Gly | Val | Ala | Tyr | Arg | His | Gly | Gln | Leu | Glu | Glu | Asn |  |  |  |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |  |  |  |
| Asp | Arg | Val | Leu | Ala | Ile | Asn | Gly | His | Asp | Leu | Arg | Tyr | Gly | Ser |  |  |  |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |  |  |  |
| Pro | Glu | Ser | Ala | Ala | His | Leu | Ile | Gln | Ala | Ser | Glu | Arg | Arg | Val |  |  |  |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |  |  |  |
| His | Leu | Val | Val | Ser | Arg | Gln | Val | Arg | Gln | Arg | Ser | Pro | Asp | Ile |  |  |  |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |  |  |  |
| Phe | Gln | Glu | Ala | Gly | Trp | Asn | Ser | Asn | Gly | Ser | Trp | Ser | Pro | Gly |  |  |  |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |  |  |  |
| Pro | Gly | Glu | Arg | Ser | Asn | Thr | Pro | Lys | Pro | Leu | His | Pro | Thr | Ile |  |  |  |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |  |  |  |
| Thr | Cys | His | Glu | Lys | Val | Val | Asn | Ile | Gln | Lys | Asp | Pro | Gly | Glu |  |  |  |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |  |  |  |
| Ser | Leu | Gly | Met | Ala | Val | Ala | Gly | Gly | Ala | Ser | His | Arg | Glu | Trp |  |  |  |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |  |  |  |
| Asp | Leu | Pro | Ile | Tyr | Val | Ile | Ser | Val | Glu | Pro | Gly | Gly | Val | Ile |  |  |  |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |  |  |  |
| Ser | Arg | Asp | Gly | Arg | Ile | Lys | Thr | Gly | Asp | Ile | Leu | Leu | Asn | Val |  |  |  |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |  |  |  |
| Asp | Gly | Val | Glu | Leu | Thr | Glu | Val | Ser | Arg | Ser | Glu | Ala | Val | Ala |  |  |  |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |  |  |
| Leu | Leu | Lys | Arg | Thr | Ser | Ser | Ser | Ile | Val | Leu | Lys | Ala | Leu | Glu |  |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |  |  |  |
| Val | Lys | Glu | Tyr | Glu | Pro | Gln | Glu | Asp | Cys | Ser | Ser | Pro | Ala | Ala |  |  |  |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |  |  |  |
| Leu | Asp | Ser | Asn | His | Asn | Met | Ala | Pro | Pro | Ser | Asp | Trp | Ser | Pro |  |  |  |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |  |  |  |
| Ser | Trp | Val | Met | Trp | Leu | Glu | Leu | Pro | Arg | Cys | Leu | Tyr | Asn | Cys |  |  |  |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |  |  |  |
| Lys | Asp | Ile | Val | Leu | Arg | Arg | Asn | Thr | Ala | Gly | Ser | Leu | Gly | Phe |  |  |  |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |  |  |  |
| Cys | Ile | Val | Gly | Gly | Tyr | Glu | Glu | Tyr | Asn | Gly | Asn | Lys | Pro | Phe |  |  |  |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |  |  |  |
| Phe | Ile | Lys | Ser | Ile | Val | Glu | Gly | Thr | Pro | Ala | Tyr | Asn | Asp | Gly |  |  |  |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |  |  |  |
| Arg | Ile | Arg | Cys | Gly | Asp | Ile | Leu | Leu | Ala | Val | Asn | Gly | Arg | Ser |  |  |  |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |  |  |  |
| Thr | Ser | Gly | Met | Ile | His | Ala | Cys | Leu | Ala | Arg | Leu | Leu | Lys | Glu |  |  |  |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |  |  |  |
| Leu | Lys | Gly | Arg | Ile | Thr | Leu | Thr | Ile | Val | Ser | Trp | Pro | Gly | Thr |  |  |  |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |  |  |  |
| Phe | Leu |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |

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<210> 15
<211> 391
<212> PRT
<213> Homo sapiens
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<220>  
<221> misc_feature  
<223> Incyte ID No.: 1311833CD1
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|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 15 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met      | Lys | Met | Lys | Ile | Gln | Lys | Lys | Glu | Lys | Gln | Leu | Ser | Asn | Leu |
| 1        |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys      | Val | Leu | Asn | His | Ser | Pro | Met | Ser | Asp | Ala | Ser | Val | Asn | Phe |
|          |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Asp      | Tyr | Lys | Ser | Pro | Ser | Pro | Phe | Asp | Cys | Ser | Thr | Asp | Gln | Glu |
|          |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu      | Lys | Ile | Glu | Asp | Val | Ala | Ser | His | Cys | Leu | Pro | Gln | Lys | Asp |
|          |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Leu      | Tyr | Thr | Ala | Glu | Glu | Glu | Ala | Ala | Thr | Leu | Phe | Pro | Arg | Lys |
|          |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Met      | Thr | Ser | His | Asn | Gly | Met | Glu | Asp | Ser | Gly | Gly | Gly | Gly | Thr |
|          |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gly      | Val | Lys | Lys | Lys | Arg | Lys | Lys | Lys | Glu | Pro | Gly | Asp | Gln | Glu |
|          |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gly      | Ala | Ala | Lys | Gly | Ser | Lys | Asp | Arg | Glu | Pro | Lys | Pro | Lys | Arg |
|          |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Lys      | Arg | Glu | Pro | Lys | Glu | Pro | Lys | Glu | Pro | Arg | Lys | Ala | Lys | Glu |
|          |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Pro      | Lys | Lys | Ala | Lys | Glu | His | Lys | Glu | Pro | Lys | Gln | Lys | Asp | Gly |
|          |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ala      | Lys | Lys | Ala | Arg | Lys | Pro | Arg | Glu | Ala | Ser | Gly | Thr | Lys | Glu |
|          |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ala      | Lys | Glu | Lys | Arg | Ser | Cys | Thr | Asp | Ser | Ala | Ala | Arg | Thr | Lys |
|          |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ser      | Arg | Lys | Ala | Ser | Lys | Glu | Gln | Gly | Pro | Thr | Pro | Val | Glu | Lys |
|          |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Lys      | Lys | Lys | Gly | Lys | Arg | Lys | Ser | Glu | Thr | Thr | Val | Glu | Ser | Leu |
|          |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Glu      | Leu | Asp | Gln | Gly | Leu | Thr | Asn | Pro | Ser | Leu | Arg | Ser | Pro | Glu |
|          |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu      | Ser | Thr | Glu | Ser | Thr | Asp | Ser | Gln | Lys | Arg | Arg | Ser | Gly | Arg |
|          |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln      | Val | Lys | Arg | Arg | Lys | Tyr | Asn | Glu | Asp | Leu | Asp | Phe | Lys | Val |
|          |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Val      | Asp | Asp | Asp | Gly | Glu | Thr | Ile | Ala | Val | Leu | Gly | Ala | Gly | Arg |
|          |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Thr      | Ser | Ala | Leu | Ser | Ala | Ser | Thr | Leu | Ala | Trp | Gln | Ala | Glu | Glu |
|          |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Pro      | Pro | Glu | Asp | Asp | Ala | Asn | Ile | Ile | Glu | Lys | Ile | Leu | Ala | Ser |
|          |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Lys      | Thr | Val | Gln | Glu | Val | His | Pro | Gly | Glu | Pro | Pro | Phe | Asp | Leu |
|          |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Glu      | Leu | Phe | Tyr | Val | Lys | Tyr | Arg | Asn | Phe | Ser | Tyr | Leu | His | Cys |
|          |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Lys      | Trp | Ala | Thr | Met | Glu | Glu | Leu | Glu | Lys | Asp | Pro | Arg | Ile | Ala |

|                                     |                         |  |     |  |     |
|-------------------------------------|-------------------------|--|-----|--|-----|
|                                     | 335                     |  | 340 |  | 345 |
| Gln Lys Ile Lys Arg Phe Arg Asn Lys | Gln Ala Gln Met Lys His |  |     |  |     |
|                                     | 350                     |  | 355 |  | 360 |
| Ile Phe Thr Glu Val Lys Gln Tyr Leu | Leu Thr His Leu Thr Ala |  |     |  |     |
|                                     | 365                     |  | 370 |  | 375 |
| Ala Phe Leu Ala Ala Val Asn Thr Val | Phe Thr Phe Leu Ser Pro |  |     |  |     |
|                                     | 380                     |  | 385 |  | 390 |
| Ser                                 |                         |  |     |  |     |

&lt;210&gt; 16

&lt;211&gt; 490

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 1342819CD1

&lt;400&gt; 16

|   |     |     |
|---|-----|-----|
| Met Glu Asp Ser Ala Ser Ala Ser Leu Ser Ser Ala Ala Ala Thr |     |     |
| 1   | 5   | 10  |
| Gly Thr Ser Thr Ser Thr Pro Ala Ala Pro Thr Ala Arg Lys Gln |     |     |
|   | 20  | 25  |
| Leu Asp Lys Glu Gln Val Arg Lys Ala Val Asp Ala Leu Leu Thr |     |     |
|   | 35  | 40  |
| His Cys Lys Ser Arg Lys Asn Asn Tyr Gly Leu Leu Leu Asn Glu |     |     |
|   | 50  | 55  |
| Asn Glu Ser Leu Phe Leu Met Val Val Leu Trp Lys Ile Pro Ser |     |     |
|   | 65  | 70  |
| Lys Glu Leu Arg Val Arg Leu Thr Leu Pro His Ser Ile Arg Ser |     |     |
|   | 80  | 85  |
| Asp Ser Glu Asp Ile Cys Leu Phe Thr Lys Asp Glu Pro Asn Ser |     |     |
|   | 95  | 100 |
| Thr Pro Glu Lys Thr Glu Gln Phe Tyr Arg Lys Leu Leu Asn Lys |     |     |
|   | 110 | 115 |
| His Gly Ile Lys Thr Val Ser Gln Ile Ile Ser Leu Gln Thr Leu |     |     |
|   | 125 | 130 |
| Lys Lys Glu Tyr Lys Ser Tyr Glu Ala Lys Leu Arg Leu Leu Ser |     |     |
|   | 140 | 145 |
| Ser Phe Asp Phe Phe Leu Thr Asp Ala Arg Ile Arg Arg Leu Leu |     |     |
|   | 155 | 160 |
| Pro Ser Leu Ile Gly Arg His Phe Tyr Gln Arg Lys Lys Val Pro |     |     |
|   | 170 | 175 |
| Val Ser Val Asn Leu Leu Ser Lys Asn Leu Ser Arg Glu Ile Asn |     |     |
|   | 185 | 190 |
| Asp Cys Ile Gly Gly Thr Val Leu Asn Ile Ser Lys Ser Gly Ser |     |     |
|   | 200 | 205 |
| Cys Ser Ala Ile Arg Ile Gly His Val Gly Met Gln Ile Glu His |     |     |
|   | 215 | 220 |
| Ile Ile Glu Asn Ile Val Ala Val Thr Lys Gly Leu Ser Glu Lys |     |     |
|   | 230 | 235 |
| Leu Pro Glu Lys Trp Glu Ser Val Lys Leu Leu Phe Val Lys Thr |     |     |
|   | 245 | 250 |
| Glu Lys Ser Ala Ala Leu Pro Ile Phe Ser Ser Phe Val Ser Asn |     |     |

|                                     |                         |     |
|-------------------------------------|-------------------------|-----|
| 260                                 | 265                     | 270 |
| Trp Asp Glu Ala Thr Lys Arg Ser Leu | Leu Asn Lys Lys Lys Lys |     |
| 275                                 | 280                     | 285 |
| Glu Ala Arg Arg Lys Arg Arg Glu Arg | Asn Phe Glu Lys Gln Lys |     |
| 290                                 | 295                     | 300 |
| Glu Arg Lys Lys Lys Arg Gln Gln Ala | Arg Lys Thr Ala Ser Val |     |
| 305                                 | 310                     | 315 |
| Leu Ser Lys Asp Asp Val Ala Pro Glu | Ser Gly Asp Thr Thr Val |     |
| 320                                 | 325                     | 330 |
| Lys Lys Pro Glu Ser Lys Lys Glu Gln | Thr Pro Glu His Gly Lys |     |
| 335                                 | 340                     | 345 |
| Lys Lys Arg Gly Arg Gly Lys Ala Gln | Val Lys Ala Thr Asn Glu |     |
| 350                                 | 355                     | 360 |
| Ser Glu Asp Glu Ile Pro Gln Leu Val | Pro Ile Gly Lys Lys Thr |     |
| 365                                 | 370                     | 375 |
| Pro Ala Asn Glu Lys Val Glu Ile Gln | Lys His Ala Thr Gly Lys |     |
| 380                                 | 385                     | 390 |
| Lys Ser Pro Ala Lys Ser Pro Asn Pro | Ser Thr Pro Arg Gly Lys |     |
| 395                                 | 400                     | 405 |
| Lys Arg Lys Ala Leu Pro Ala Ser Glu | Thr Pro Lys Ala Ala Glu |     |
| 410                                 | 415                     | 420 |
| Ser Glu Thr Pro Gly Lys Ser Pro Glu | Lys Lys Pro Lys Ile Lys |     |
| 425                                 | 430                     | 435 |
| Glu Glu Ala Val Lys Glu Lys Ser Pro | Ser Leu Gly Lys Lys Asp |     |
| 440                                 | 445                     | 450 |
| Ala Arg Gln Thr Pro Lys Lys Pro Glu | Ala Lys Phe Phe Thr Thr |     |
| 455                                 | 460                     | 465 |
| Pro Ser Lys Ser Val Arg Lys Ala Ser | His Thr Pro Lys Lys Trp |     |
| 470                                 | 475                     | 480 |
| Pro Lys Lys Pro Lys Val Pro Gln Ser | Thr                     |     |
| 485                                 | 490                     |     |

&lt;210&gt; 17

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 1871288CD1

&lt;400&gt; 17

|   |  |
|---|--|
| Met Ala Glu Leu Glu Phe Val Gln Ile Ile Ile Ile Val Val Val |  |
| 1 5 10 15   |  |
| Met Met Val Met Val Val Val Ile Thr Cys Leu Leu Ser His Tyr |  |
| 20 25 30  |  |
| Lys Leu Ser Ala Arg Ser Phe Ile Ser Arg His Ser Gln Gly Arg |  |
| 35 40 45  |  |
| Arg Arg Glu Asp Ala Leu Ser Ser Glu Gly Cys Leu Trp Pro Ser |  |
| 50 55 60  |  |
| Glu Ser Thr Val Ser Gly Asn Gly Ile Pro Glu Pro Gln Val Tyr |  |
| 65 70 75  |  |
| Ala Pro Pro Arg Pro Thr Asp Arg Leu Ala Val Pro Pro Phe Ala |  |
| 80 85 90  |  |

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Gln Arg Glu Arg Phe His Arg Phe Gln Pro Thr Tyr Pro Tyr Leu
      95                      100                      105
Gln His Glu Ile Asp Leu Pro Pro Thr Ile Ser Leu Ser Asp Gly
      110                      115                      120
Glu Glu Pro Pro Pro Tyr Gln Gly Pro Cys Thr Leu Gln Leu Arg
      125                      130                      135
Asp Pro Glu Gln Gln Leu Glu Leu Asn Arg Glu Ser Val Arg Ala
      140                      145                      150
Pro Pro Asn Arg Thr Ile Phe Asp Ser Asp Leu Met Asp Ser Ala
      155                      160                      165
Arg Leu Gly Gly Pro Cys Pro Pro Ser Ser Asn Ser Gly Ile Ser
      170                      175                      180
Ala Thr Cys Tyr Gly Ser Gly Gly Arg Met Glu Gly Pro Pro Pro
      185                      190                      195
Thr Tyr Ser Glu Val Ile Gly His Tyr Pro Gly Ser Ser Phe Gln
      200                      205                      210
His Gln Gln Ser Ser Gly Pro Pro Ser Leu Leu Glu Gly Thr Arg
      215                      220                      225
Leu His His Thr His Ile Ala Pro Leu Glu Ser Ala Ala Ile Trp
      230                      235                      240
Ser Lys Glu Lys Asp Lys Gln Lys Gly His Pro Leu
      245                      250

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&lt;210&gt; 18

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 2587338CD1

&lt;400&gt; 18

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Met Glu Ser Ala Arg Glu Asn Ile Asp Leu Gln Pro Gly Ser Ser
  1                      5                      10                      15
Asp Pro Arg Ser Gln Pro Ile Asn Leu Asn His Tyr Ala Thr Lys
      20                      25                      30
Lys Ser Val Ala Glu Ser Met Leu Asp Val Ala Leu Phe Met Ser
      35                      40                      45
Asn Ala Met Arg Leu Lys Ala Val Leu Glu Gln Gly Pro Ser Ser
      50                      55                      60
His Tyr Tyr Thr Thr Leu Val Thr Leu Ile Ser Leu Ser Leu Leu
      65                      70                      75
Leu Gln Val Val Ile Gly Val Leu Leu Val Val Ile Ala Arg Leu
      80                      85                      90
Asn Leu Asn Glu Val Glu Lys Gln Trp Arg Leu Asn Gln Leu Asn
      95                      100                      105
Asn Gly Ser His Ile Leu Val Phe Phe Thr Val Val Ile Asn Gly
      110                      115                      120
Phe Ile Thr Gly Phe Gly Ala His Lys Thr Arg Val Leu Ala Cys
      125                      130                      135
Gln Asp Ser Arg Asn Pro Leu
      140

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<210> 19  
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 <213> Homo sapiens

<220>  
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 Met Glu Ile Ile Glu Asn Ser Phe His Ile Asn Gly Leu Lys Ile  
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 Asn Gln Arg Thr Leu Cys Val His Val Cys Ile Ser Ala His Arg  
                   20                  25                  30  
 Asn Ile Tyr Thr Tyr Val Asp Tyr Ile His Val Cys Ile Tyr Val  
                   35                  40                  45  
 Tyr Ile Tyr Ile His Leu Tyr Lys Cys Ile Tyr Thr Tyr Thr Tyr  
                   50                  55                  60  
 Asn Val Cys Met Cys Ile Tyr  
                   65

<210> 20  
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 <213> Homo sapiens

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 Met Phe Gln Phe His Ala Gly Ser Trp Glu Ser Trp Cys Cys Cys  
     1                  5                  10                  15  
 Cys Leu Ile Pro Ala Asp Arg Pro Trp Asp Arg Gly Gln His Trp  
                   20                  25                  30  
 Gln Leu Glu Met Ala Asp Thr Arg Ser Val His Glu Thr Arg Phe  
                   35                  40                  45  
 Glu Ala Ala Val Lys Val Ile Gln Ser Leu Pro Lys Asn Gly Ser  
                   50                  55                  60  
 Phe Gln Pro Thr Asn Glu Met Met Leu Lys Phe Tyr Ser Phe Tyr  
                   65                  70                  75  
 Lys Gln Ala Thr Glu Gly Pro Cys Lys Leu Ser Arg Pro Gly Phe  
                   80                  85                  90  
 Trp Asp Pro Ile Gly Arg Tyr Lys Trp Asp Ala Trp Ser Ser Leu  
                   95                  100                  105  
 Gly Asp Met Thr Lys Glu Glu Ala Met Ile Ala Tyr Val Glu Glu  
                   110                  115                  120  
 Met Lys Lys Ile Ile Glu Thr Met Pro Met Thr Glu Lys Val Glu  
                   125                  130                  135  
 Glu Leu Leu Arg Val Ile Gly Pro Phe Tyr Glu Ile Val Glu Asp  
                   140                  145                  150  
 Lys Lys Ser Gly Arg Ser Ser Asp Ile Thr Ser Asp Leu Gly Asn

|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 155                 |                     | 160 |  | 165 |
| Val Leu Thr Ser | Thr Pro Asn Ala Lys | Thr Val Asn Gly Lys | Ala |  |     |
|                 | 170                 |                     | 175 |  | 180 |
| Glu Ser Ser Asp | Ser Gly Ala Glu Ser | Glu Glu Glu Glu Ala | Gln |  |     |
|                 | 185                 |                     | 190 |  | 195 |
| Glu Glu Val Lys | Gly Ala Glu Gln Ser | Asp Asn Asp Ile Asn | Asp |  |     |
|                 | 200                 |                     | 205 |  | 210 |
| Asp His Val Glu | Asp Val Thr Gly Ile | Gln His Leu Thr Ser | Asp |  |     |
|                 | 215                 |                     | 220 |  | 225 |
| Ser Asp Ser Glu | Val Tyr Cys Asp Ser | Met Glu Gln Phe Gly | Gln |  |     |
|                 | 230                 |                     | 235 |  | 240 |
| Glu Glu Ser Leu | Asp Ser Phe Thr Ser | Asn Asn Gly Pro Phe | Gln |  |     |
|                 | 245                 |                     | 250 |  | 255 |
| Tyr Tyr Leu Gly | Gly His Ser Ser Gln | Pro Met Glu Asn Ser | Gly |  |     |
|                 | 260                 |                     | 265 |  | 270 |
| Phe Arg Glu Asp | Ile Gln Val Pro Pro | Gly Asn Gly Asn Ile | Gly |  |     |
|                 | 275                 |                     | 280 |  | 285 |
| Asn Met Gln Val | Val Ala Val Glu Gly | Lys Gly Glu Val Lys | His |  |     |
|                 | 290                 |                     | 295 |  | 300 |
| Gly Gly Glu Asp | Gly Arg Asn Asn Ser | Gly Ala Pro His Arg | Glu |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Lys Arg Gly Gly | Glu Thr Asp Glu Phe | Ser Asn Val Arg Arg | Gly |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Arg Gly His Arg | Met Gln His Leu Ser | Glu Gly Thr Lys Gly | Arg |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Gln Val Gly Ser | Gly Gly Asp Gly Glu | Arg Trp Gly Ser Asp | Arg |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Gly Ser Arg Gly | Ser Leu Asn Glu Gln | Ile Ala Leu Val Leu | Met |  |     |
|                 | 365                 |                     | 370 |  | 375 |
| Arg Leu Gln Glu | Asp Met Gln Asn Val | Leu Gln Arg Leu Gln | Lys |  |     |
|                 | 380                 |                     | 385 |  | 390 |
| Leu Glu Thr Leu | Thr Ala Leu Gln Ala | Lys Ser Ser Thr Ser | Thr |  |     |
|                 | 395                 |                     | 400 |  | 405 |
| Leu Gln Thr Ala | Pro Gln Pro Thr Ser | Gln Arg Pro Ser Trp | Trp |  |     |
|                 | 410                 |                     | 415 |  | 420 |
| Pro Phe Glu Met | Ser Pro Gly Val Leu | Thr Phe Ala Ile Ile | Trp |  |     |
|                 | 425                 |                     | 430 |  | 435 |
| Pro Phe Ile Ala | Gln Trp Leu Val Tyr | Leu Tyr Tyr Gln Arg | Arg |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Arg Arg Lys Leu | Asn                 |                     |     |  |     |
|                 | 455                 |                     |     |  |     |

<210> 21  
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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 3070147CD1

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           1                  5                  10                  15



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Leu Tyr Leu Val Ile Cys Gly Gln Asp Asp Gly Pro Pro Gly Ser
      20      25      30
Glu Asp Pro Glu Arg Asp Asp His Glu Gly Gln Pro Arg Pro Arg
      35      40      45
Val Pro Arg Lys Arg Gly His Ile Ser Pro Lys Ser Arg Pro Met
      50      55      60
Ala Asn Ser Thr Leu Leu Gly Leu Leu Ala Pro Thr Gly Glu Ala
      65      70      75
Trp Gly Ile Leu Gly Gln Pro Pro Asn Arg Pro Asn His Ser Pro
      80      85      90
Pro Pro Ser Ala Lys Val Lys Lys Ile Phe Gly Trp Gly Asp Phe
      95     100     105
Tyr Ser Asn Ile Lys Thr Val Ala Leu Asn Leu Leu Val Thr Gly
     110     115     120
Lys Ile Val Asp His Gly Asn Gly Thr Phe Ser Val His Phe Gln
     125     130     135
His Asn Ala Thr Gly Gln Gly Asn Ile Ser Ile Ser Leu Val Pro
     140     145     150
Pro Ser Lys Ala Val Glu Phe His Gln Glu Gln Gln Ile Phe Ile
     155     160     165
Glu Ala Lys Ala Ser Lys Ile Phe Asn Cys Arg Met Glu Trp Glu
     170     175     180
Lys Val Glu Arg Gly Arg Arg Thr Ser Leu Cys Thr His Asp Pro
     185     190     195
Ala Lys Ile Cys Ser Arg Asp His Ala Gln Ser Ser Ala Thr Trp
     200     205     210
Ser Cys Ser Gln Pro Phe Lys Val Val Cys Val Tyr Ile Ala Phe
     215     220     225
Tyr Ser Thr Asp Tyr Arg Leu Val Gln Lys Val Cys Pro Asp Tyr
     230     235     240
Asn Tyr His Ser Asp Thr Pro Tyr Tyr Pro Ser Gly
     245     250

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&lt;210&gt; 22

&lt;211&gt; 149

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 3271841CD1

&lt;400&gt; 22

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Met Glu Ser Arg Gly Lys Ser Ala Ser Ser Pro Lys Pro Asp Thr
  1      5      10      15
Lys Val Pro Gln Val Thr Thr Glu Ala Lys Val Pro Pro Ala Ala
      20      25      30
Asp Gly Lys Ala Pro Leu Thr Lys Pro Ser Lys Lys Glu Ala Pro
      35      40      45
Ala Glu Lys Gln Gln Pro Pro Ala Ala Pro Thr Thr Ala Pro Ala
      50      55      60
Lys Lys Thr Ser Ala Lys Ala Asp Pro Ala Leu Leu Asn Asn His
      65      70      75
Ser Asn Leu Lys Pro Ala Pro Thr Val Pro Ser Ser Pro Asp Ala

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     | 90  |     |
| Thr | Pro | Glu | Pro | Lys | Gly | Pro | Gly | Asp | Gly | Ala | Glu | Glu | Asp | Glu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Ala | Ala | Ser | Gly | Gly | Pro | Gly | Gly | Arg | Gly | Pro | Trp | Ser | Cys | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Phe | Asn | Pro | Leu | Leu | Val | Ala | Gly | Gly | Val | Ala | Val | Ala | Ala |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Ile | Ala | Leu | Ile | Leu | Gly | Val | Ala | Phe | Leu | Val | Arg | Lys | Lys |     |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     |     |

<210> 23  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 3537827CD1

<400> 23  
 Met Met Pro Ser Cys Asn Arg Ser Cys Ser Cys Ser Arg Gly Pro  
 1 5 10 15  
 Ser Val Glu Asp Gly Lys Trp Tyr Gly Val Arg Ser Tyr Leu His  
 20 25 30  
 Leu Phe Tyr Glu Asp Cys Ala Gly Thr Ala Leu Ser Asp Asp Pro  
 35 40 45  
 Glu Gly Pro Pro Val Leu Cys Pro Arg Arg Pro Trp Pro Ser Leu  
 50 55 60  
 Cys Trp Lys Ile Ser Leu Ser Ser Gly Thr Leu Leu Leu Leu Leu  
 65 70 75  
 Gly Val Ala Ala Leu Thr Thr Gly Tyr Ala Val Pro Pro Lys Leu  
 80 85 90  
 Glu Gly Ile Gly Glu Gly Glu Phe Leu Val Leu Asp Gln Arg Ala  
 95 100 105  
 Ala Asp Tyr Asn Gln Ala Leu Gly Thr Cys Arg Leu Ala Gly Thr  
 110 115 120  
 Ala Leu Cys Val Ala Ala Gly Val Leu Leu Ala Ile Cys Leu Phe  
 125 130 135  
 Trp Ala Met Ile Gly Trp Leu Ser Gln Asp Thr Lys Ala Glu Pro  
 140 145 150  
 Leu Asp Pro Glu Ala Asp Ser His Val Glu Val Phe Gly Asp Glu  
 155 160 165  
 Pro Glu Gln Gln Leu Ser Pro Ile Phe Arg Asn Ala Ser Gly Gln  
 170 175 180  
 Ser Trp Phe Ser Pro Pro Ala Ser Pro Phe Gly Gln Ser Ser Val  
 185 190 195  
 Gln Thr Ile Gln Pro Lys Arg Asp Ser  
 200

<210> 24  
 <211> 367  
 <212> PRT  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 3729267CD1

&lt;400&gt; 24

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Met Ala Ser Glu Leu Cys Lys Thr Ile Ser Val Ala Arg Leu Glu
 1          5          10          15
Lys His Lys Asn Leu Phe Leu Asn Tyr Arg Asn Leu His His Phe
          20          25          30
Pro Leu Glu Leu Leu Lys Asp Glu Gly Leu Gln Tyr Leu Glu Arg
          35          40          45
Leu Tyr Met Lys Arg Asn Ser Leu Thr Ser Leu Pro Glu Asn Leu
          50          55          60
Ala Gln Lys Leu Pro Asn Leu Val Glu Leu Tyr Leu His Ser Asn
          65          70          75
Asn Ile Val Val Val Pro Glu Ala Ile Gly Ser Leu Val Lys Leu
          80          85          90
Gln Cys Leu Asp Leu Ser Asp Asn Ala Leu Glu Ile Val Cys Pro
          95          100          105
Glu Ile Gly Arg Leu Arg Ala Leu Arg His Leu Arg Leu Ala Asn
          110          115          120
Asn Gln Leu Gln Phe Leu Pro Pro Glu Val Gly Asp Leu Lys Glu
          125          130          135
Leu Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro
          140          145          150
Glu Arg Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp
          155          160          165
Arg Asn Arg Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro
          170          175          180
Ser Leu Asn Glu Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu
          185          190          195
Pro Leu Asp Leu Gly Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val
          200          205          210
Asp Asn Asn Ile His Leu Lys Gly Leu Pro Ser Tyr Leu Tyr Asn
          215          220          225
Lys Val Ile Gly Cys Ser Gly Cys Gly Ala Pro Ile Gln Val Ser
          230          235          240
Glu Val Lys Leu Leu Ser Phe Ser Ser Gly Gln Arg Thr Val Phe
          245          250          255
Leu Pro Ala Glu Val Lys Ala Ile Gly Thr Glu His Asp His Val
          260          265          270
Leu Pro Leu Gln Glu Leu Ala Met Arg Gly Leu Tyr His Thr Tyr
          275          280          285
His Ser Leu Leu Lys Asp Leu Asn Phe Leu Ser Pro Ile Ser Leu
          290          295          300
Pro Arg Ser Leu Leu Glu Leu Leu His Cys Pro Leu Gly His Cys
          305          310          315
His Arg Cys Ser Glu Pro Met Phe Thr Ile Val Tyr Pro Lys Leu
          320          325          330
Phe Pro Leu Arg Glu Thr Pro Met Ala Gly Leu His Gln Trp Lys
          335          340          345
Thr Thr Val Ser Phe Val Ala Tyr Cys Cys Ser Thr Gln Cys Leu
          350          355          360
Gln Thr Phe Asp Leu Leu Ser
          365

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<210> 25  
 <211> 681  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 3768771CD1

<400> 25  
 Met Cys Thr Tyr Ile Asn Met Glu Asn Phe Thr Leu Ala Arg Asp  
 1 5 10 15  
 Glu Lys Gly Asn Val Leu Leu Glu Asp Gly Lys Gly Arg Cys Pro  
 20 25 30  
 Phe Asp Pro Asn Phe Lys Ser Thr Ala Leu Val Val Asp Gly Glu  
 35 40 45  
 Leu Tyr Thr Gly Thr Val Ser Ser Phe Gln Gly Asn Asp Pro Ala  
 50 55 60  
 Ile Ser Arg Ser Gln Ser Leu Arg Pro Thr Lys Thr Glu Ser Ser  
 65 70 75  
 Leu Asn Trp Leu Gln Asp Pro Ala Phe Val Ala Ser Ala Tyr Ile  
 80 85 90  
 Pro Glu Ser Leu Gly Ser Leu Gln Gly Asp Asp Asp Lys Ile Tyr  
 95 100 105  
 Phe Phe Phe Ser Glu Thr Gly Gln Glu Phe Glu Phe Phe Glu Asn  
 110 115 120  
 Thr Ile Val Ser Arg Ile Ala Arg Ile Cys Lys Gly Asp Glu Gly  
 125 130 135  
 Gly Glu Arg Val Leu Gln Gln Arg Trp Thr Ser Phe Leu Lys Ala  
 140 145 150  
 Gln Leu Leu Cys Ser Arg Pro Asp Asp Gly Phe Pro Phe Asn Val  
 155 160 165  
 Leu Gln Asp Val Phe Thr Leu Ser Pro Ser Pro Gln Asp Trp Arg  
 170 175 180  
 Asp Thr Leu Phe Tyr Gly Val Phe Thr Ser Gln Trp His Arg Gly  
 185 190 195  
 Thr Thr Glu Gly Ser Ala Val Cys Val Phe Thr Met Lys Asp Val  
 200 205 210  
 Gln Arg Val Phe Ser Gly Leu Tyr Lys Glu Val Asn Arg Glu Thr  
 215 220 225  
 Gln Gln Trp Tyr Thr Val Thr His Pro Val Pro Thr Pro Arg Pro  
 230 235 240  
 Gly Ala Cys Ile Thr Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser  
 245 250 255  
 Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His  
 260 265 270  
 Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met Leu Leu Leu Gln  
 275 280 285  
 Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg Val Pro Gly  
 290 295 300  
 Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly  
 305 310 315

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | His | Lys | Ala | Val | Ser | Val | Gly | Pro | Arg | Val | His | Ile | Ile |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Glu | Glu | Leu | Gln | Ile | Phe | Ser | Ser | Gly | Gln | Pro | Val | Gln | Asn | Leu |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Leu | Leu | Asp | Thr | His | Arg | Gly | Leu | Leu | Tyr | Ala | Ala | Ser | His | Ser |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Gly | Val | Val | Gln | Val | Pro | Met | Ala | Asn | Cys | Ser | Leu | Tyr | Arg | Ser |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Cys | Gly | Asp | Cys | Leu | Leu | Ala | Arg | Asp | Pro | Tyr | Cys | Ala | Trp | Ser |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Gly | Ser | Ser | Cys | Lys | His | Val | Ser | Leu | Tyr | Gln | Pro | Gln | Leu | Ala |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Thr | Arg | Pro | Trp | Ile | Gln | Asp | Ile | Glu | Gly | Ala | Ser | Ala | Lys | Asp |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Leu | Cys | Ser | Ala | Ser | Ser | Val | Val | Ser | Pro | Ser | Phe | Val | Pro | Thr |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Gly | Glu | Lys | Pro | Cys | Glu | Gln | Val | Gln | Phe | Gln | Pro | Asn | Thr | Val |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Asn | Thr | Leu | Ala | Cys | Pro | Leu | Leu | Ser | Asn | Leu | Ala | Thr | Arg | Leu |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Trp | Leu | Arg | Asn | Gly | Ala | Pro | Val | Asn | Ala | Ser | Ala | Ser | Cys | His |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Val | Leu | Pro | Thr | Gly | Asp | Leu | Leu | Leu | Val | Gly | Thr | Gln | Gln | Leu |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Gly | Glu | Phe | Gln | Cys | Trp | Ser | Leu | Glu | Glu | Gly | Phe | Gln | Gln | Leu |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Val | Ala | Ser | Tyr | Cys | Pro | Glu | Val | Val | Glu | Asp | Gly | Val | Ala | Asp |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Gln | Thr | Asp | Glu | Gly | Gly | Ser | Val | Pro | Val | Ile | Ile | Ser | Thr | Ser |
|     |     |     |     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |
| Arg | Val | Ser | Ala | Pro | Ala | Gly | Gly | Lys | Ala | Ser | Trp | Gly | Ala | Asp |
|     |     |     |     | 545 |     |     |     |     | 550 |     |     |     |     | 555 |
| Arg | Ser | Tyr | Trp | Lys | Glu | Phe | Leu | Val | Met | Cys | Thr | Leu | Phe | Val |
|     |     |     |     | 560 |     |     |     |     | 565 |     |     |     |     | 570 |
| Leu | Ala | Val | Leu | Leu | Pro | Val | Leu | Phe | Leu | Leu | Tyr | Arg | His | Arg |
|     |     |     |     | 575 |     |     |     |     | 580 |     |     |     |     | 585 |
| Asn | Ser | Met | Lys | Val | Phe | Leu | Lys | Gln | Gly | Glu | Cys | Ala | Ser | Val |
|     |     |     |     | 590 |     |     |     |     | 595 |     |     |     |     | 600 |
| His | Pro | Lys | Thr | Cys | Pro | Val | Val | Leu | Pro | Pro | Glu | Thr | Arg | Pro |
|     |     |     |     | 605 |     |     |     |     | 610 |     |     |     |     | 615 |
| Leu | Asn | Gly | Leu | Gly | Pro | Pro | Ser | Thr | Pro | Leu | Asp | His | Arg | Gly |
|     |     |     |     | 620 |     |     |     |     | 625 |     |     |     |     | 630 |
| Tyr | Gln | Ser | Leu | Ser | Asp | Ser | Pro | Pro | Gly | Ser | Arg | Val | Phe | Thr |
|     |     |     |     | 635 |     |     |     |     | 640 |     |     |     |     | 645 |
| Glu | Ser | Glu | Lys | Arg | Pro | Leu | Ser | Ile | Gln | Asp | Ser | Phe | Val | Glu |
|     |     |     |     | 650 |     |     |     |     | 655 |     |     |     |     | 660 |
| Val | Ser | Pro | Val | Cys | Pro | Arg | Pro | Arg | Val | Arg | Leu | Gly | Ser | Glu |
|     |     |     |     | 665 |     |     |     |     | 670 |     |     |     |     | 675 |
| Ile | Arg | Asp | Ser | Val | Val |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 680 |     |     |     |     |     |     |     |     |     |     |

<210> 26  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 4248993CD1

<400> 26  
 Met Gly Arg Lys Leu Asp Leu Ser Gly Leu Thr Asp Asp Glu Thr  
 1 5 10 15  
 Glu His Val Leu Gln Val Val Gln Arg Asp Phe Asn Leu Arg Lys  
 20 25 30  
 Lys Glu Glu Glu Arg Leu Ser Glu Leu Lys Gln Lys Leu Asp Glu  
 35 40 45  
 Glu Gly Ser Lys Cys Ser Ile Leu Ser Lys His Gln Gln Phe Val  
 50 55 60  
 Glu His Cys Cys Met Arg Cys Cys Ser Pro Phe Thr Phe Leu Val  
 65 70 75  
 Asn Thr Lys Arg Gln Cys Gly Asp Cys Lys Phe Asn Val Cys Lys  
 80 85 90  
 Ser Cys Cys Ser Tyr Gln Lys His Glu Lys Ala Trp Val Cys Cys  
 95 100 105  
 Val Cys Gln Gln Ala Arg Leu Leu Arg Ala Gln Ser Leu Glu Trp  
 110 115 120  
 Phe Tyr Asn Asn Val Lys Ser Arg Phe Lys Arg Phe Gly Ser Ala  
 125 130 135  
 Arg Phe

<210> 27  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 5402418CD1

<400> 27  
 Met Lys Phe Gln Tyr Lys Glu Asp His Pro Phe Glu Tyr Arg Lys  
 1 5 10 15  
 Lys Glu Gly Glu Lys Ile Arg Lys Lys Tyr Pro Asp Arg Val Pro  
 20 25 30  
 Val Ile Val Glu Lys Ala Pro Lys Ala Arg Val Pro Asp Leu Asp  
 35 40 45  
 Lys Arg Lys Tyr Leu Val Pro Ser Asp Leu Thr Val Gly Gln Phe  
 50 55 60  
 Tyr Phe Leu Ile Arg Lys Arg Ile His Leu Arg Pro Glu Asp Ala  
 65 70 75  
 Leu Phe Phe Phe Val Asn Asn Thr Ile Pro Pro Thr Ser Ala Thr  
 80 85 90

Met Gly Gln Leu Tyr Glu Asp Asn His Glu Glu Asp Tyr Phe Leu  
                                   95                                  100                                  105  
 Tyr Val Ala Tyr Ser Asp Glu Ser Val Tyr Gly Lys  
                                   110                                  115

<210> 28  
 <211> 1058  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 2417014CB1

<400> 28  
 cgagatcgca gcccaaccca tggccggggtc tcctagccgc gccgcggggcc ggcgactgca 60  
 gcttcccctg ctgtgcctct tcctccaggg cgccactgcc gtccctctttg ctgtctttgt 120  
 ccgctacaac cacaaaaccg acgctgccct ctggcaccgg agcaaccaca gtaacgcgga 180  
 caatgaattt tactttcgct acccaaaaga gtctcactct gttgcccagg ctggagtgc 240  
 acgacgcaat ctcggtcac tgcaaccttc acctcccaga tggagtttcg ctcttggtgc 300  
 ccaggctgga gtgcaatggc acaatctcgg ctcaccacaa cctctgcctc ccgggttcaa 360  
 gcgattctcc tgcctcagtc tcctgagtag ctgggattac agcctggaga gtgtgtttcc 420  
 actcatagcc gagggccagc gcagtgccac gtcacaggcc atgcaccagc tcttcggggt 480  
 gtttgtcaca ctgatgtttg cctctgtggg cgggggcctt ggaggggtcc tgctgaagct 540  
 accctttctg gactcccccc ccagactccc agcactacga ggaccaagtt cactggcagg 600  
 tgccctggcga gcatgaggat aaagcccaga gacctctgag ggtggaggag gcagacactc 660  
 aggcctaacc cactgccagc ccctgagagg acacgctcct tttcgaagat gctgactggc 720  
 tgctactagg aagttctttt tgagctccca ttctccagc tgcaagaagg gagccatgag 780  
 ccagaaggag gcccctttcc acaggcagcg tctccacagg gagaggggca acaggaggct 840  
 gggaaatggt ggggagtggg gccgtaactg ggtacaatag ggggaacctc accagatgcc 900  
 caaccgcact gccctaccag cctgcacatg ggtagaagag gccaaattga ggcaccaag 960  
 tgatccactg gcccacgtc acacagttac agtgaagccc aagccaggcc tggttgagg 1020  
 tgataaacgc cactgtgcgg caccgcaaaa aaaaaaaa 1058

<210> 29  
 <211> 2235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 2634931CB1

<400> 29  
 cggccaccgg tccgaccaca ccagggaac tgtagtcca gtgcctggtt ccaccggggg 60  
 ggcactctgag aactgtgtcc ttccattcct gagtccagca cttcccaggc caggaactca 120  
 cacagctttt ggcctgagcc cccgttacca agagaaagga ggtttttgcc aaggactcca 180  
 aggggagtgc acttgatgct ggtcgggacc caaagcacc agccctccct gagacattgt 240  
 gtgagtccgg ctgggcctca aacacggccc ccactgcccc accccagcca ggggtggtgc 300  
 tgtgtgggta ggaactttaaa tccagctgcc agaccctgg acgggagaag gagagacggc 360  
 tggccaccat gcaaggctcc tgcagtttcc tgatgcttct gctgccgcta ctgctactgc 420  
 tgggtggccac cacaggcccc gttggagccc tcacagatga ggagaaacgt ttgatgggtg 480  
 agctgcacaa cctctacggg gcccgaggtat ccccgacggc ctgacacatg ctgcacatga 540

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gatgggacga ggagctggcc gccttcgccca aggcctacgc acggcagtg cgtgtggggcc 600
acaacaagga gcgcggggcg cgcgcgcgaga atctgttcgc catcacagac gagggcatgg 660
acgtgccgct ggccatggag gagtggcacc acgagcgtga gcactacaac ctgagcgccg 720
ccacctgcag cccaggccag atgtgcggcc actacacgca ggtggtatgg gccaagacag 780
agaggatcgg ctgtggttcc cacttctgtg agaagctcca ggggtgttgag gagaccaaca 840
tcgaattact ggtgtgcaac tatgagcctc cggggaacgt gaaggggaaa cggccctacc 900
aggaggggac tccgtgctcc caatgtccct ctggctacca ctgcaagaac tccctctgtg 960
aaccatcgg aagcccggaa gatgctcagg atttgcctta cctggtaact gagggcccat 1020
ccttcgggc gactgaagca tcagactcta ggaaaatggg tactccttct tccctagcaa 1080
cggggattcc ggctttcttg gtaacagagg tctcaggctc cctggcaacc aaggctctgc 1140
ctgctgtgga aaccaggcc ccaacttctc tagcaacgaa agaccgccc tccatggcaa 1200
cagaggctcc accttgcgta acaactgagg tcccttccat tttggcagct cacagcctgc 1260
cctccttgga tgaggagcca gttaccttcc ccaaatcgac ccatgttctc atcccaaaat 1320
cagcagacaa agtgacagac aaaacaaaag tgccctctag gagcccagag aactctctgg 1380
acccaagat gtccctgaca ggggcaaggg agctcctacc ccatgcccag gaggaggctg 1440
aggctgaggc tgagttgcct ccttcaggcg aggtcttggc ctgagttttt ccagcccagg 1500
acaagccagg tgagctgcag gccacactgg accacacggg gcacacctcc tccaagtccc 1560
tgcccaattt cccaataacc tctgccaccg ctaatgccac ggggtggcggt gccctggctc 1620
tgcatcgtc cttgccaggc gcagagggcc ctgacaagcc tagcgtcgtg tcagggctga 1680
actcggggcc tggcatgtg tggggccctc tctggggact actgctcctg cctcctctgg 1740
tgttggtctg aatcttctga aggggatacc actcaaaggg tgaagaggct agctgtcctc 1800
ctgtcatctt cccaccctg tcccagccc ctaaacaaga tacttcttgg ttaaggccct 1860
ccggaaggga aaggctacgg ggcattgtgc tcatcacacc atccatcctg gaggcacaag 1920
gcctggctgg ctgcgagctc agggggccgc ctgaggactg cacaccgggc ccacacctct 1980
cctgcccctc cctcctgagt cctgggggtg ggaggatttg agggagctca ctgcctacct 2040
ggcctggggc tgtctgccc cagagcatgt gcgctctccc tgagtgcctg tgtagctggg 2100
gatggggatt cctaggggca gatgaaggac aagccccact ggagtggggg tctttgagtg 2160
ggggaggcag ggacgaggga aggaaagcaa ctctgactc tccaataaaa acctgtccaa 2220
cctgtgaaaa aaaaa 2235

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<210> 30  
 <211> 1559  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 110960CB1

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<400> 30
cccaggcccc gccctctcct cccccgcgc cgatggtacg cgccggctcg cctggccccg 60
ctgcagtgga tgttgctgga acccacgcgg aggaaggaag agacgcaggc aggtgcgggt 120
tacccaagcg gccaccggg cctcagggac cccttccccg agagacggca ccatgaccca 180
gggaaagctc tccgtggcta acaaggcccc tgggaccgag gggcagcagc aggtgcatgg 240
cgagaagaag gaggtccag cagtgcctc agccccacc tcctatgagg aagccacctc 300
tggggagggg atgaaggcag gggccttccc cccagcccc acagcggctg ctctccacc 360
tagctggggc tatgtggacc ccagcagcag ctccagctat gacaacggtt tccccaccgg 420
agaccatgag ctcttcacca ctttcagctg ggatgaccag aaagtctgctc gagtctttgt 480
cagaaaggctc tacaccatcc tgctgattca gctgctgggtg accttggtg tctggtctct 540
ctttactttc tgtgacctg tcaaggacta tgtccaggcc aaccaggct ggtactgggc 600
atcctatgct gtgttctttg caacctacct gacctgggt tgctgttctg gaccaggag 660
gcatttcccc tggaaacctga ttctcctgac cgtctttacc ctgtccatgg cctacctcac 720
tgggatgctg tccagctact acaacaccac ctccgtgctg ctgtgcctgg gcatcacggc 780
ccttgctctg ctctcagtc cctcttcag cttccagacc aagttcgact tcacctcctg 840

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<211> 1521

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<213> Homo sapiens

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&lt;210&gt; 43

&lt;211&gt; 1974

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 1342819CB1

&lt;400&gt; 43

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<210> 44

<211> 1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No.: 1871288CB1

<400> 44

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<210> 45  
 <211> 505  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 2587338CB1

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 gctggacgtg gccctgttca tgtccaacgc catgcggctg aaggcgggtg tggagcaggg 240  
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 ggtggtcatc ggtgtcctgc tcgtgggtcat tgcacggctg aacctgaatg aggtagaaaa 360  
 gcagtggcga ctcaaccagc tcaacaacgg cagccacatc ttggtcttct tcaactgtgg 420  
 catcaatggt ttcatcacag gcttcggggc acataaaaaa agggtcctgg cctgccagga 480  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 2821211CB1

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 agatttcaag aaaaaataaa tggaaatcat cgaaaattca tttcacatta atggtctaaa 360  
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 aaaatgaaaa taagtgaata ataattaggt taacattggt gctccctgtg acaaaatttt 1020  
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<210> 47  
 <211> 1727  
 <212> DNA  
 <213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 2824832CB1

&lt;400&gt; 47

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&lt;210&gt; 48

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_Feature

&lt;223&gt; Incyte ID No.: 3070147CB1

&lt;400&gt; 48

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<211> 1624

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No.: 3271841CB1

<400> 49

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aaaa 1624

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<211> 2080

<212> DNA

<213> Homo sapiens

<220>  
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 <223> Incyte ID No.: 3537827CB1

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<210> 51  
 <211> 1420  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No.: 3729267CB1

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<210> 52

<211> 2703

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No.: 3768771CB1

<400> 52

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<210> 53

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No.: 4248993CB1

<400> 53

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cagaagcacg aaaaggcctg ggtctgctgc gtctgccagc aagcgaggct tctgagggcc 360
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aggttctgaa gaacctgtac agggagcacc ggctggagag tggcgctgct ttcgacattc 480
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<210> 54

<211> 1293

<212> DNA

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No.: 5402418CB1

&lt;400&gt; 54

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ccggagcgga cgtttctgca gctattctga gcacaccttg acgtcggctg agggagcggg 180
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tcatgaagtt ccagtacaag gaggaccatc cctttgagta tcggaaaaag gaaggagaaa 300
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&lt;210&gt; 55

&lt;211&gt; 375

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;300&gt;

&lt;308&gt; g3002527

&lt;400&gt; 55

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Met Glu Phe Ser Leu Leu Leu Pro Arg Leu Glu Cys Asn Gly Ala
  1                      5                      10                      15
Ile Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser Asp Ser
                20                      25                      30
Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Met Cys Thr
                35                      40                      45
His Ala Arg Leu Ile Leu Tyr Phe Phe Leu Val Glu Met Glu Phe
                50                      55                      60
Leu His Val Gly Gln Ala Gly Leu Glu Leu Pro Thr Ser Asp Asp
                65                      70                      75
Pro Ser Val Ser Ala Ser Gln Ser Ala Arg Tyr Arg Thr Gly His
                80                      85                      90
His Ala Arg Leu Cys Leu Ala Asn Phe Cys Gly Arg Asn Arg Val
                95                      100                     105
Ser Leu Met Cys Pro Ser Trp Ser Pro Glu Leu Lys Gln Ser Thr
                110                     115                     120
Cys Leu Ser Leu Pro Lys Cys Trp Asp Tyr Arg Arg Ala Ala Val

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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 125                 |                     | 130 |  | 135 |
| Pro Gly Leu Phe | Ile Leu Phe Phe Leu | Arg His Arg Cys Pro | Thr |  |     |
|                 | 140                 |                     | 145 |  | 150 |
| Leu Thr Gln Asp | Glu Val Gln Trp Cys | Asp His Ser Ser Leu | Gln |  |     |
|                 | 155                 |                     | 160 |  | 165 |
| Pro Ser Thr Pro | Glu Ile Lys His Pro | Pro Ala Ser Ala Ser | Gln |  |     |
|                 | 170                 |                     | 175 |  | 180 |
| Val Ala Gly Thr | Lys Asp Met His His | Tyr Thr Trp Leu Ile | Phe |  |     |
|                 | 185                 |                     | 190 |  | 195 |
| Ile Phe Ile Phe | Asn Phe Leu Arg Gln | Ser Leu Asn Ser Val | Thr |  |     |
|                 | 200                 |                     | 205 |  | 210 |
| Gln Ala Gly Val | Gln Trp Arg Asn Leu | Gly Ser Leu Gln Pro | Leu |  |     |
|                 | 215                 |                     | 220 |  | 225 |
| Pro Pro Gly Phe | Lys Leu Phe Ser Cys | Pro Ser Leu Leu Ser | Ser |  |     |
|                 | 230                 |                     | 235 |  | 240 |
| Trp Asp Tyr Arg | Arg Pro Pro Arg Leu | Ala Asn Phe Phe Val | Phe |  |     |
|                 | 245                 |                     | 250 |  | 255 |
| Leu Val Glu Met | Gly Phe Thr Met Phe | Ala Arg Leu Ile Leu | Ile |  |     |
|                 | 260                 |                     | 265 |  | 270 |
| Ser Gly Pro Cys | Asp Leu Pro Ala Ser | Ala Ser Gln Ser Ala | Gly |  |     |
|                 | 275                 |                     | 280 |  | 285 |
| Ile Thr Gly Val | Ser His His Ala Arg | Leu Ile Phe Asn Phe | Cys |  |     |
|                 | 290                 |                     | 295 |  | 300 |
| Leu Phe Glu Met | Glu Ser His Ser Val | Thr Gln Ala Gly Val | Gln |  |     |
|                 | 305                 |                     | 310 |  | 315 |
| Trp Pro Asn Leu | Gly Ser Leu Gln Pro | Leu Pro Pro Gly Leu | Lys |  |     |
|                 | 320                 |                     | 325 |  | 330 |
| Arg Phe Ser Cys | Leu Ser Leu Pro Ser | Ser Trp Asp Tyr Gly | His |  |     |
|                 | 335                 |                     | 340 |  | 345 |
| Leu Pro Pro His | Pro Ala Asn Phe Cys | Ile Phe Ile Arg Gly | Gly |  |     |
|                 | 350                 |                     | 355 |  | 360 |
| Val Ser Pro Tyr | Leu Ser Gly Trp Ser | Gln Thr Pro Asp Leu | Arg |  |     |
|                 | 365                 |                     | 370 |  | 375 |

&lt;210&gt; 56

&lt;211&gt; 309

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;300&gt;

&lt;308&gt; g847722

&lt;400&gt; 56

|                 |                     |                     |     |
|-----------------|---------------------|---------------------|-----|
| Met Val Ser Phe | Val Ser Asn Tyr Ser | His Thr Ala Asn Ile | Leu |
| 1               | 5                   | 10                  | 15  |
| Pro Asp Ile Glu | Asn Glu Asp Phe Ile | Lys Asp Cys Val Arg | Ile |
|                 | 20                  | 25                  | 30  |
| His Asn Lys Phe | Arg Ser Glu Val Lys | Pro Thr Ala Ser Asp | Met |
|                 | 35                  | 40                  | 45  |
| Leu Tyr Met Thr | Trp Asp Pro Ala Leu | Ala Gln Ile Ala Lys | Ala |
|                 | 50                  | 55                  | 60  |
| Trp Ala Ser Asn | Cys Gln Phe Ser His | Asn Thr Arg Leu Lys | Pro |
|                 | 65                  | 70                  | 75  |
| Pro His Lys Leu | His Pro Asn Phe Thr | Ser Leu Gly Glu Asn | Ile |

|   |     |  |     |  |     |
|---|-----|--|-----|--|-----|
|   | 80  |  | 85  |  | 90  |
| Trp Thr Gly Ser Val Pro Ile Phe Ser Val Ser Ser Ala Ile Thr |     |  |     |  |     |
|   | 95  |  | 100 |  | 105 |
| Asn Trp Tyr Asp Glu Ile Gln Asp Tyr Asn Phe Lys Thr Arg Ile |     |  |     |  |     |
|   | 110 |  | 115 |  | 120 |
| Cys Lys Lys Val Cys Gly His Tyr Thr Gln Val Val Trp Ala Asp |     |  |     |  |     |
|   | 125 |  | 130 |  | 135 |
| Ser Tyr Lys Val Gly Cys Ala Val Gln Phe Cys Pro Lys Val Ser |     |  |     |  |     |
|   | 140 |  | 145 |  | 150 |
| Gly Phe Asp Ala Leu Ser Asn Gly Ala His Phe Ile Cys Asn Tyr |     |  |     |  |     |
|   | 155 |  | 160 |  | 165 |
| Gly Pro Gly Gly Asn Tyr Pro Thr Trp Pro Tyr Lys Arg Gly Ala |     |  |     |  |     |
|   | 170 |  | 175 |  | 180 |
| Thr Cys Ser Ala Cys Pro Asn Asn Asp Lys Cys Leu Asp Asn Leu |     |  |     |  |     |
|   | 185 |  | 190 |  | 195 |
| Cys Val Asn Asp Ser Glu Thr Lys Ser Asn Val Thr Thr Met Leu |     |  |     |  |     |
|   | 200 |  | 205 |  | 210 |
| Tyr Ile Arg Leu Ala His Ile Ser Thr                         |     |  |     |  |     |
|   | 215 |  |     |  |     |